ACT

Andisheh ChemoTherapy

شرکت شیمی درمان اندیشه

تولید کننده ورکینگ و رفرنس استانداردهای ثانویه دارویی

Andisheh ChemoTherapy

Andisheh serves as the bedrock of the Azhand Pharmaceutical Group's R&D, which is the distinguishing facet of the Group within Iran's chemical and pharmaceutical companies. Its capability in R&D includes the synthesis of complex molecules to design of special equipment for closed system manufacturing of APIs and Drug Products. Furthermore, Andisheh has over 40 years of experience in process design and validation as well as multi-purpose production plant design and layout in the chemical industry. Our connection with chemical equipment manufacturers with proven track records in the production of various equipment in super alloy formats (Stainless steel, Titanium, Nickel, Monel, Inconel, Hastelloy), flame, plasma, CLAD, Mixed Metal Oxide (MMO), Glass-lined coatings as well as various inert polymers such as polyethylene, polypropylene, and fluoropolymers such as PFA (Polyfluoroalkoxy) as well as ECTFE (ethylene chlorotrifluoro-ethylene) has allowed us to provide turnkey projects for investors interested in the production of various chemicals required by numerous industries in Iran.

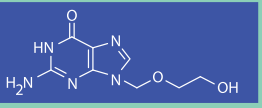
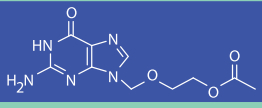
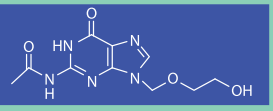
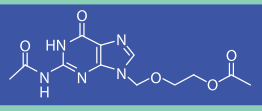
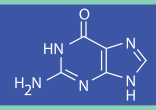
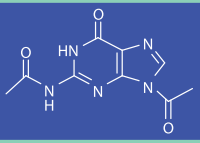
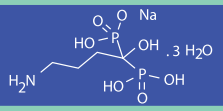
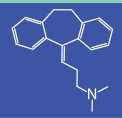
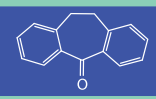
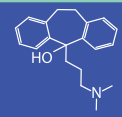
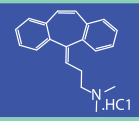
R&D laboratories are located in Tehran. Kilo-Lab, scale-up and pilot facilities are located in Kaveh Industrial Park, 90 km south of Tehran near the city of Saveh. Andisheh is comprised of a core of Ph.D. and M.Sc. chemists, and Pharm.Ds with supporting technical staff including chemical, mechanical and electrical engineers.

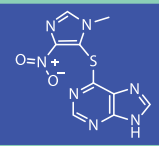
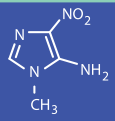
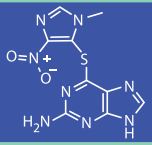
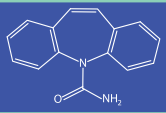
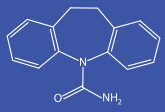
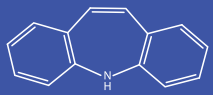
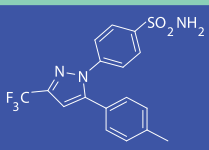
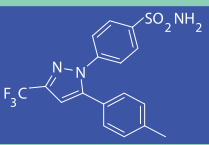
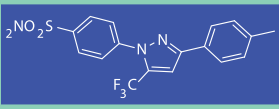
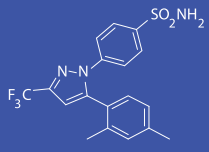
The engineering department has been granted patents on closed production systems which were designed by our staff and manufactured by various domestic fabricators. Andisheh has close scientific ties with a number of major academic institutions, including faculty and Ph.D. committee memberships of our senior scientists and engineers in major universities. In addition to in-house state-of-the-art equipment such as HPLCs, GCs, UV, IR, Atomic Absorption, polarimeter, etc. Andisheh has access to high-end instruments such as high resolution ^{1}H and ^{13}C NMR, Mass Spec, Crystal and Powder X-Ray through its affiliation with major academic institutions. Our scientists at Andisheh have 89 international product and process patents (34 US) and 152 scholarly publications in high impact scientific journals(see www.freepatentsonline.com, KhashayarKarimian, www.ibb.ut.ac.ir/ kkarimian. In 2015, our scientists were awarded the International Razi Prize for innovation and excellence in research and development and the WIPO Innovation Award. In addition to non-infringing synthesis and production of various pharmaceutical and chemical products on client's specifications, Andisheh also provides Secondary Reference Standards (SRS) for various APIs (working standard and Related Compounds) to various domestic and international clients. A list our SRS is available at Andishehct.com. SRS are prepared according to ICH guidelines ICH M4Q, 3.2.S.3.1; ICH Q7A 11.1 and ICH Q6A, 2.11 ,3.2 ,3.3). Synthesis of each SRS is followed by its full chemical characterization (UV, IR, ^{1}H NMR, ^{13}C NMR, Mass Spectrometry), purity and assay (HPLC) and specification. For APIs with pharmacopoeia monographs, specification is comprised of comparison of two spectra of SRS with those of Primary Reference Standards (PRS) obtained from USP or EP. For APIs without pharmacopoeia monograph, chemical literature precedents are used for spectral comparison. These documents are available to our clients upon their request. The company's R&D and innovative philosophy is not limited to small molecules.

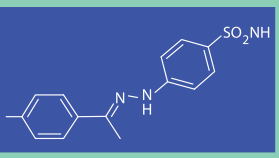
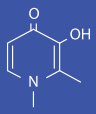
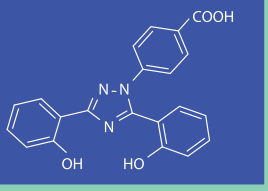
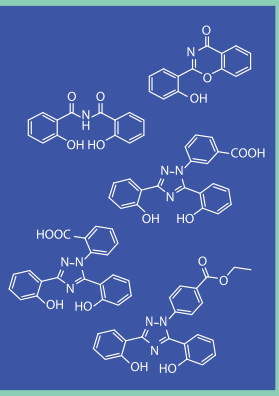
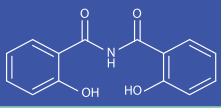
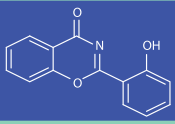
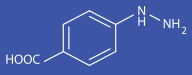
Scholarly publications of our scientists and patents issued to them have recently appeared in the chemical literature in the area of biopharmaceuticals involving novel methods for the isolation of proteins and nucleic acids. Andisheh was granted Science-Based Company status by the Office of the Vice President for Research and Development in 2018.

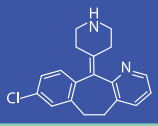
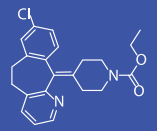
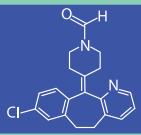
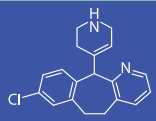
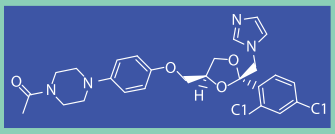
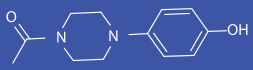
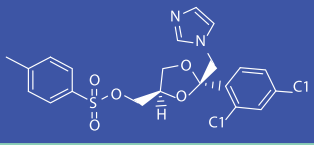
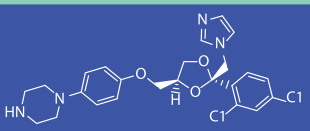
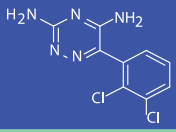
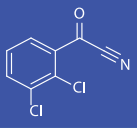
PRODUCTS

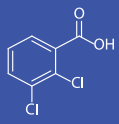
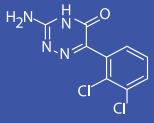
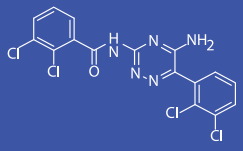
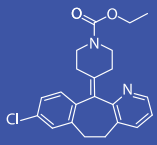
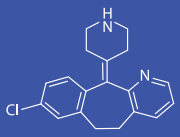
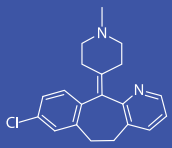
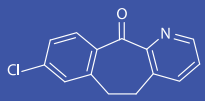
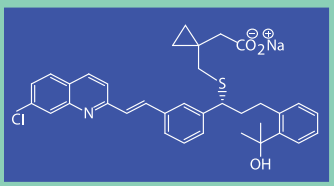
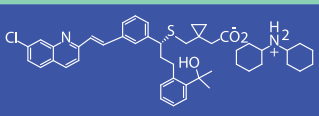
Andisheh Chemo Therapy

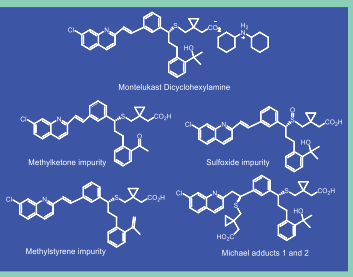
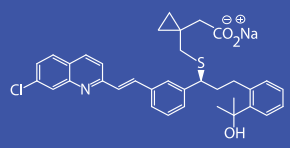
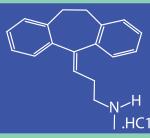
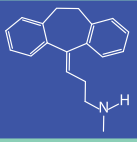
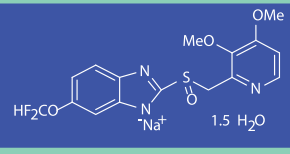
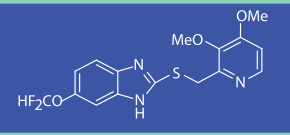
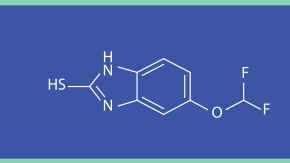
Entry	APIs	Working or Ref.STD	Chemical Structure
1	Acyclovir	Acyclovir Working STD CAS No.: 59277-89-3	
2		Acyclovir Related Compound A (USP) CAS No.: 110104-37-5	
3		Acyclovir Related Compound G (USP) CAS No: 75128-73-3	
4		Acyclovir Related Compound F (USP) CAS No.: 110104-37-5	
5		Guanine CAS No.: 73-40-5	
6		Diacetyl Guanine CAS No.: 3056-33-5	
7	Alendronate Sodium	Alendronate Sodium Working STD CAS No.: 121268-17-5	
8		4-Aminobutyric Acid CAS No: 56-12-2	
9	Amitriptyline Hydrochloride	Amitriptyline Hydrochloride Working STD CAS No.: 549-18-8	
10		Amitriptyline Related Compound A (USP) CAS No.: 1210-35-1	
11		Amitriptyline Related Compound B (USP) CAS No.: 1159-03-1	
12		Cyclobenzaprine Hydrochloride (USP) CAS No.: 6202-23-9	

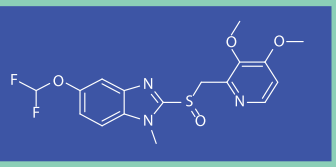
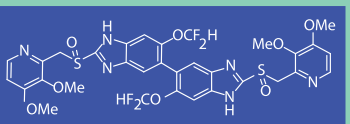
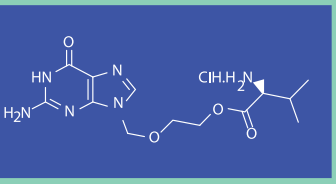
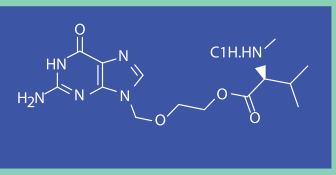
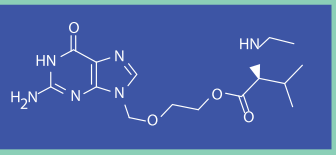
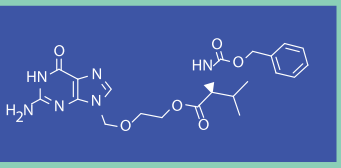
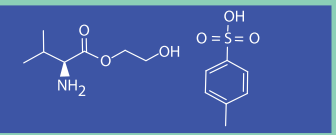
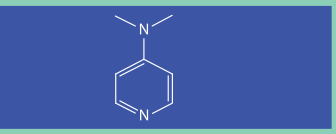
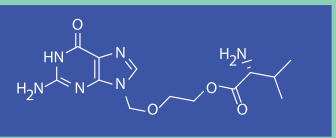
Entry	APIs	Working or Ref.STD	Chemical Structure
13	Azathioprine	Azathioprine Working STD CAS No.: 446-86-6	
14		Azathioprine Related Compound A (USP) CAS No.: 4531-54-8	
15		Azathioprine Related Compound G (USP) CAS No.: 5581-52-2	
16	Carbamazepine	Carbamazepine Working STD CAS No.: 298-46-4	
17		Carbamazepine Related Compound A (USP) CAS No.: 3564-73-6	
18		Carbamazepine Related Compound B (USP) CAS No.: 256-96-2	
19	Celecoxib	Celecoxib Working STD CAS No.: 169590-42-5	
20		Celecoxib Related Compound A (USP) CAS No.: 170570-01-1	
21		Celecoxib Related Compound B (USP) CAS No.: 331943-04-5	
22		Celecoxib Related Compound C (USP) CAS No.: 170570-09-9	

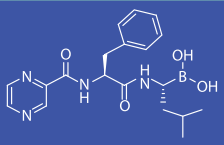
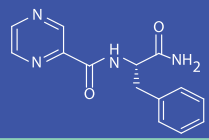
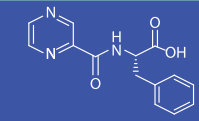
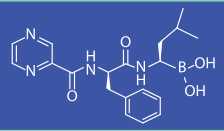
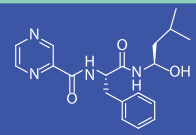
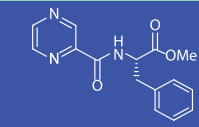
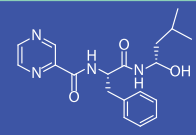
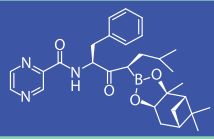
Entry	APIs	Working or Ref.STD	Chemical Structure
23	**Celecoxib**	Celecoxib Related Compound D (USP) CAS No.: 1061214-06-9	
24	**Deferiprone**	Deferiprone Working STD CAS No.: 30652-11-0	
25		Maltol (USP) CAS No.: 118-71-8	
26	**Deferasirox**	Deferasirox Working STD CAS No.: 201530-41-8	
27		Deferasirox System Suitability Mixture (USP) CAS No.: 201530-41-8	
28		Deferasirox Related compound A (House) CAS No.: 1972-71-0	
29		Deferasirox Related Compound B (USP) CAS No.: 1218-69-5	
30		Deferasirox Related Compound C (USP) CAS No.: 619-67-0	

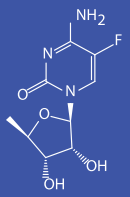
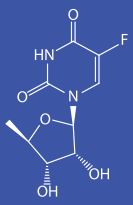
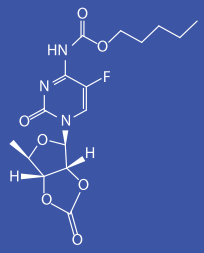
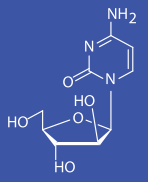
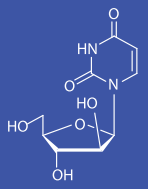
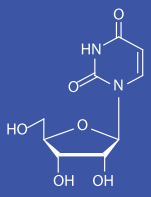
Entry	APIs	Working or Ref.STD	Chemical Structure
31	Desloratadine	Desloratadine Working STD CAS No.: 100643-71-8	
32		Loratadine Impurity (USP) Cas No.: 79794-75-5	
33		Desloratadin Related Compound F (USP) CAS No.: 117810-61-4	
34		Desloratadin Related Compound B (USP) CAS No.: N/A	
35	Ketoconazole	Ketoconazole Working STD CAS No.: 65277-42-1	
36		Ketoconazole Impurity 11 (House) CAS No.: 67914-60-7	
37		Ketoconazole Impurity 6 (House) CAS No.: 1610851-14-3	
38		Ketoconazole Impurity D (EP) CAS No.: 67914-61-8	
39	Lamotrigine	Lamotrigine Working STD CAS No.: 84057-84-1	
40		2,3-Dichlorobenzoyl cyanide CAS No.: 77668-42-9	

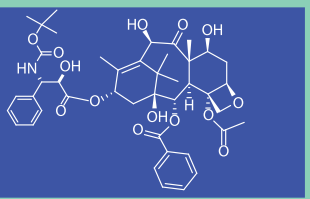
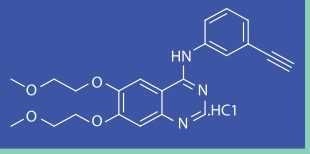
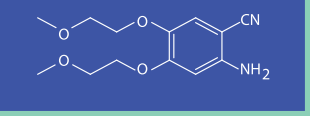
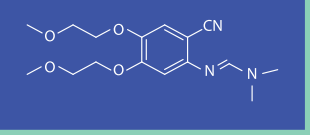
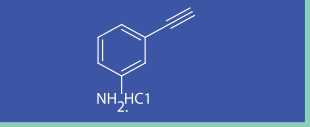
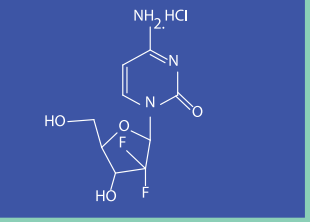
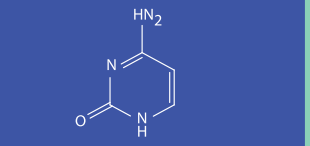
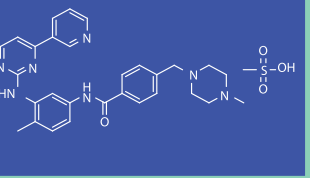
Entry	APIs	Working or Ref.STD	Chemical Structure
41	Lamotrigine	Lamotrigine Related Compound B (USP) CAS No.: 50-45-3	
42		Lamotrigine Related Compound C (USP) CAS No.: 252186-78-0	
43		Lamotrigine Related Compound D (USP) CAS No.: 252186-79-1	
44	Loratadine	Loratadine Working STD CAS No.: 79794-75-5	
45		Loratadine Related Compound A (USP) CAS No.: 100643-71-8	
46		Loratadine Related Compound B (USP) CAS No.: 38092-89-6	
47		Loratadine Related Compound C (USP) CAS No.: 31251-41-9	
48	Montelukast Sodium	Montelukast Sodium Working STD CAS No.: 151767-02-1	
49		Montelukast Dicyclohexylamine CAS No.: 577953-88-9	

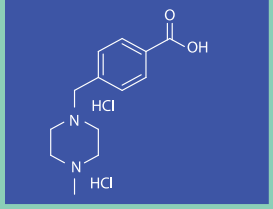
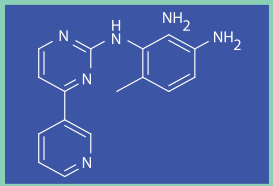
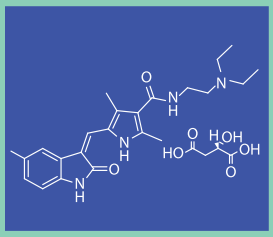
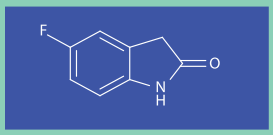
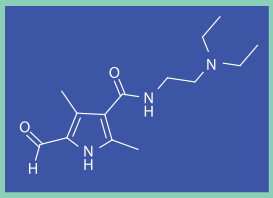
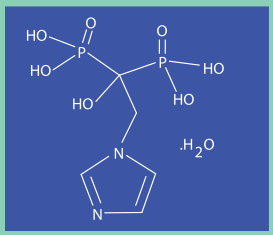
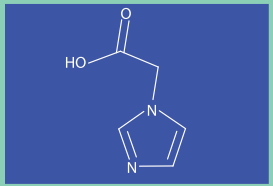
Entry	APIs	Working or Ref.STD	Chemical Structure
50	**Montelukast Sodium**	Montelukast for Peak Identification (USP)	
51		Montelukast Racemate (USP) CAS No.: 577953-88-9	
52	**Nortriptyline Hydrochloride**	Nortriptyline Hydrochloride Working STD CAS No.: 894-71-3	
53		cyclobenzaprine Related Compound B (USP) CAS No.: 438-59-5	
54		Nortriptyline for system suitability CRS (EP)	Nortriptyline for system suitability CRS (EP)
55	**Pantoprozole Sodium**	Pantoprozole Sodium Working STD CAS No.: 164579-32-2	
56		Pantoprazole Related Compound A (USP) CAS No.: 127780-16-9	
57		Pantoprazole Related Compound B (USP) CAS No.: 102625-64-9	
58		Pantoprazole Related Compound C (USP) CAS No.: 97963-62-7	

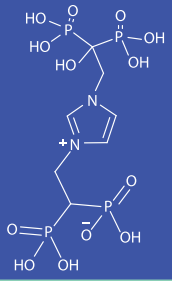
Entry	APIs	Working or Ref.STD	Chemical Structure
59	Pantoprozole Sodium	Pantoprazole Related Compounds D and F Mixture (USP) CAS No.: 624742-53-6 + 721924-06-7	
60		Pantoprazole Related Compound E (USP) CAS No.: 2115779-15-0	
61	Valacyclovir	Valacyclovir Working STD CAS No.: 502421-45-6	
62		Valacyclovir Related Compound C (USP) CAS No.: 1346747-65-6	
63		Valacyclovir Related Compound D (USP) CAS No.: 1346747-69-0	
64		Valacyclovir Related Compound E (USP) CAS No.: 124832-31-1	
65		Valacyclovir Related Compound F (USP) CAS No.: 86150-61-0	
66		Valacyclovir Related Compound G (USP) CAS No.: 1122-58-3	
67		D-Valacyclovir (USP) CAS No.: 124832-28-6	

Entry	APIs	Working or Ref.STD	Chemical Structure
68	Bortezomib	Bortezomib Working STD CAS No.: 179324-69-7	
69		Bortezomib Related Compound A CAS No.: 289472-80-6	
70		Bortezomib Related Compound B CAS No.: 1093959-75-1	
71		Bortezomib Related Compound D CAS No.: 1132709-15-9	
72		Bortezomib Related Compound E CAS No.: 289472-78-2	
73		Bortezomib Related Compound F CAS No.: 289472-78-2	
74		Bortezomib Related Compound G CAS No.: 289472-78-2	
75		Bortezomib Related Compound I CAS No.: 205393-22-2	
76	Capecitabine	Capecitabine Working STD CAS No.: 154361-50-9	

Entry	APIs	Working or Ref.STD	Chemical Structure
77	Capecitabine	Capecitabine Related Compound A (USP) CAS No.: 66335-38-4	
78		Capecitabine Related Compound B (USP) CAS No.: 3094-09-5	
79		Capecitabine Related Compound C (USP) CAS No.: 921769-65-5	
80	Cytarabine	Cytarabine Working STD CAS No.: 147-94-4	
81		Uracil arabinoside (USP) CAS No.: 3083-77-0	
82		Uridine (USP) CAS No.: 58-96-8	

Entry	APIs	Working or Ref.STD	Chemical Structure
83	**Docetaxel**	Docetaxel Working STD CAS No.: 114977-28-5	
84	**Erlotinib hydrochloride**	Erlotinib hydrochloride Working STD CAS No.: 183319-69-9	
85		Erlotinib Related Compound A (2-Amino-4,5-bis(2- methoxyethoxy) benzonitrile) (House) CAS No.: 950596-58-4	
86		Erlotinib Related Compound B ((E)-N'-(2-cyano-4,5-bis (2-methoxyethoxy) phenyl)-N,N-dimethylformimidamide)(House) CAS No: 950596-59-5	
87		Erlotinib Related Compound C (3-Ethynylaniline chloride) (House) CAS No.: 207226-02-6	
88	**Gemcitabine Hydrochloride**	Gemcitabine Hydrochloride Working STD CAS No.: 95058-81-4	
89		Cytosine (USP) CAS No.: 71-30-7	
90	**Imatinib Mesylate**	Imatinib Mesylate Working STD CAS No.: 152459-95-5	

Entry	APIs	Working or Ref.STD	Chemical Structure
91	Imatinib Mesylate	Imatinib Related compound A (4-[(4-methyl-1- piperazinyl)methyl] benzoic acid dihydrochloride) (House) CAS No.: 106261-49-8	
92		Imatinib Related compound B (6-Methyl-N1-(4-(pyridin-3-yl)pyrimidin-2-yl)benzene-1,3-diamine) (House) CAS No.: 152460-10-1	
93	Sunitinib Malate	Sunitinib Malate Working STD CAS No.: 341031-54-7	
94		Sunitinib Related Compound A (5-Fluoro-2-oxindole) (House) CAS No.: 56341-41-4	
95		Sunitinib Related Compound B (N-[2-(Diethylamino)ethyl]-5-formyl- 2,4-dimethyl-1H-pyrrole-3-carboxamide) (House) CAS No.: 356068-86-5	
96	Zoledronic Acid	Zoledronic Acid Working STD CAS No.: 165800-06-6	
97		Zoledronic Acid Related Compound A (USP) CAS No.: 22884-10-2	

Entry	APIs	Working or Ref.STD	Chemical Structure
98	Zoledronic Acid	Zoledronic Acid Related Compound B (USP) CAS No.: 1627731-61-6	

**نمونه های ورکینگ استاندارد و ناخالصی های سنتز شده توسط این شرکت، با خلوص بالا و با قیمتی بسیار مناسب تر از رفرنس های فارماکوپه ای در اختیار همکاران و خریداران عزیز قرار خواهد گرفت.

**در صورت اعلام درخواست مواردی غیر از موارد مذکور در کاتالوگ از طرف شرکت ها، بعد از مطالعه، بررسی و اطمینان از توانایی در سنتز مواد درخواستی، در مدت زمان معینی، قادر به تهیه و تامین سفارش های همکاران و خریداران عزیز خواهیم بود.

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وجه تمایز گروه دارویی آژند از سایر شرکت ها در صنایع دارویی ایران پژوهش و پردازش است و در این رابطه شرکت اندیشه به عنوان سنگ بنای پژوهش و پردازش گروه دارویی آژند عمل می نماید. شرکت اندیشه در سال ۱۳۹۸ توسط معاونت علمی و فناوری ریاست جمهوری بعنوان شرکت دانش بنیان شناخته شده و در سال ۱۴۰۰ موفق به اخذ مجوز آزمایشگاه همکار توسط سازمان غذا و داروی ایران برای تولید ورکینگ و رفرنس استاندارد های ثانویه داروئی شده است. این شرکت علاوه بر سنتز و تولید انواع محصولات دارویی بر اساس درخواست مشتری، در زمینه تولید استانداردهای مرجع ثانویه برای مواد موثره دارویی (ورکینگ استاندارد و رفرنس استاندارد) با توجه به معیارهای ICH (ICH M4Q, 3.2.S.3.1;ICH Q7A 11.1 and ICH Q6A, 2.11, 3.2, 3.3) فعالیت می نماید. آزمایشگاه های پژوهش در تهران و آزمایشگاه های پردازش، اسکیل آپ و امکانات پیلوت در شهرک صنعتی کاوه واقع در ۹۰ کیلومتری جنوب تهران و در شمال شهر ساوه قرار دارد. هسته علمی و فناوری اندیشه متشکل از شیمیدانان با مدرک دکترا و کارشناسی ارشد و داروساز می باشد. مدیریت ارشد اندیشه روابط علمی نزدیکی با تعدادی از دانشگاههای معتبر کشور دارند که شامل عضویت در هیئت علمی دانشگاه تهران و کمیته های مختلف علمی در سایر دانشگاه ها می باشد. این شرکت علاوه بر تجهیزات پیشرفته مانند IR ، UV ، GC ، HPLC ، جذب اتمی ، پلاریمتر و غیره در آزمایشگاه های خود، دسترسی کامل به تجهیزات پیشرفته مانند طیف سنج NMR ، طیف سنجی جرمی به واسطه همکاری نزدیک علمی با دانشگاههای معتبر کشور دارد. از دیگر توانمندی شرکت اندیشه، جدا سازی استریو ایزومر ها با روش های انحصاری این شرکت، فرمولاسیون های جدید داروها، جدا سازی مونوکلونال انتی بادی ها و اسید های نوکلئیک در مقیاس آزمایشگاهی و صنعتی و طراحی تجهیزات ویژه برای تولید سیستمهای بسته تولید مواد موثره دارویی و محصولات دارویی است.

مدیریت ارشد شرکت اندیشه بالغ بر ۴۰ سال تجربه علمی و عملی در طراحی فرآیند های تولید انواع مواد شیمیایی، معتبر سازی آنها و ساخت کارخانه های مربوطه فعالیت داشته و با معرفی سازندگان معتبر داخلی انواع ماشین الات تولید مواد شیمیایی از آلیاژها و سوپر آلیاژهای (super alloys) مختلف مانند Stainless Steel, Titanium, Nickel, Monel, Inconel, Hastelloy و پوشش های پیشرفته مانند(MMO) Mixed Metal Oxide و Glass-lined با روش های Flame and Plasma Coating و انفجاری CLAD و پوشش های پلیمری مانند پلی اتیلن، پلی پروپیلن و حتی پوشش های فلوروپلیمری مانند Teflon, Polyfluoroalkoxy (PFA) , ECTFE توانسته از ابتدا تا انتهای یک واحد تولید انواع مواد شیمیایی را بصورت Turnkey در اختیار علاقمندان به تولید مواد شیمیایی مورد نیاز صنایع کشور قرار دهد.دانشمندان و محققان ما در شرکت اندیشه دارای ۸۹ اختراع بین المللی محصول و فرایند (۳۴ ثبت اختراع آمریکا) و ۱۵۳ مقاله علمی در مجلات بین المللی با ضریب تأثیر بالا می باشند. همچنین، محققین گروه داروئی آژند در سال ۲۰۱۵ جایزه بین المللی خوارزمی را برای نوآوری در تحقیق و توسعه و جایزه بین المللی نوآوری WIPO را در سال ۲۰۱۶ دریافت نموده اند.

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