



SynVision Chem

INNOVATION EXCELLENCE



TRANSFORMING CHEMICAL SCIENCE INTO A SUSTAINABLE BUSINESS

We are an innovation-led sustainable scientific solution provider. Offering services for medicinal chemistry, process development, CRAMS business, and R and D digitization. The sustainopreneur team of SynVision Chem brings years of relevant experience to the company.

A team of experienced chemists, technicians, and business professionals is responsible for dealing transparently and ethically with customers.

Our Values "S P I R I T"

- **S**ustainopreneurship: Entrepreneurship through innovation for sustainability.
- **P**assion: Passion in everything we do.
- **I**ntegrity: Maintaining high moral principles and professional standards.
- **R**espect: Treat people with courtesy, politeness, and kindness.
- **I**ngenuity: Think out of the box (beyond the textbook teaching).
- **T**eam Work: Team is the only identity, demonstrating team spirit with internal & external partners.

Our Vision

To Be A Preferred Partner For Sustainable Innovative Scientific Solutions.

Why choose us?

Your Success Is Our Goal

Value For Money:

Cost-effectiveness and On-Time delivery are integral parts of our business model.

Quality:

Quality is the signature of our work. We value your business and are committed to delivering quality standards.

Strong Expertise:

With our core competence in the field, we offer the best value to our customers.

Out Of The Box Thinking:

We don't let our knowledge become our limitation. We go beyond textbook teaching to explore and invent novel sustainable processes and synthetic routes.

Flexible Business Model

A flexible business model enables clients to work as a team. Depending on requirements, clients can either choose a full-time equivalent (FTE) or a fee-for-service (FFS) pricing model, or a hybrid of both for synthetic chemistry services. We also offer a more flexible and cost-effective, Fees-for-Success pricing model to minimize risk to success factor.

Our Services Includes

- Medicinal Chemistry

Library synthesis, Scale-up of Intermediate / Potential candidates.

- Custom Synthesis

Cost-effective and innovative solutions for custom synthesis requirements.

- R&D Digitization

Selection, configuration, adoption, and integration of laboratory digitization systems (LIMS, E-Lab Notebook, Inventory system, Data Analysis System.

- Sustainable process development

Sustainable process development for API, KSM, and advanced intermediate of API, agrochemicals, specialty chemicals, and intermediates.

- CRAMS

We have collaboration with third-party manufacturing site to offer facilitation for tech-transfer and manufacturing up to several hundred kilograms in non-GMP / cGMP environments.



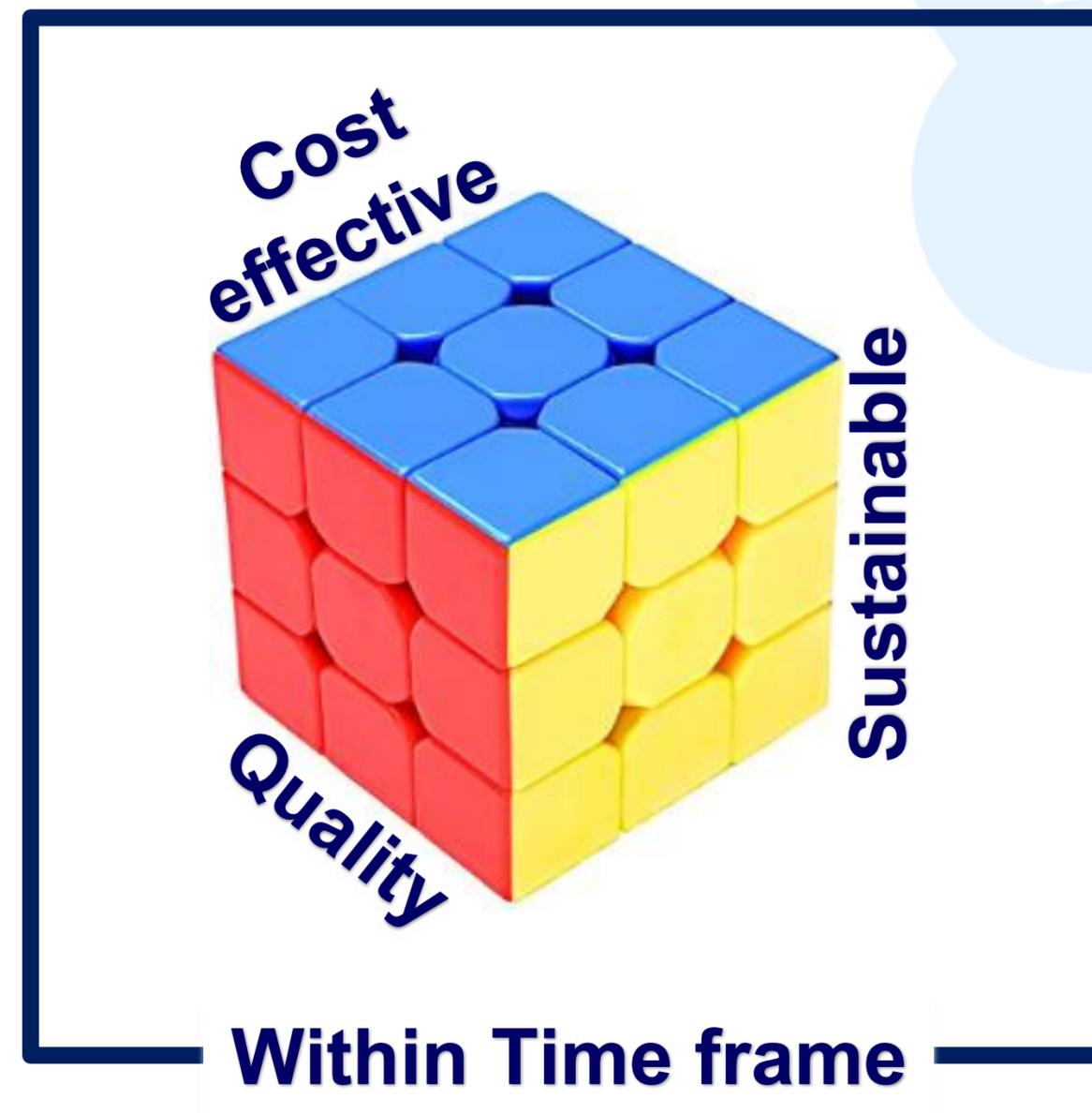
Looking for Custom Synthesis Partner ?

SynVision Chem

INNOVATION EXCELLENCE

Our custom synthesis services are designed to offer, a multidimensional-optimized solution, to meet the custom synthesis needs of our client “On Time” and with desired quality.

We offer cost-effective solutions through our “Fee-For-Success” business model.



Our Strength and Limitations

Strength

- **We have expertise to handle any Organic Reactions from mg to multi Kg scale.**
- **Temp range from -80 to 160 C**
- **We can develop a process for synthesizing same cyano-molecule without using hazardous Regents like cyanides.**



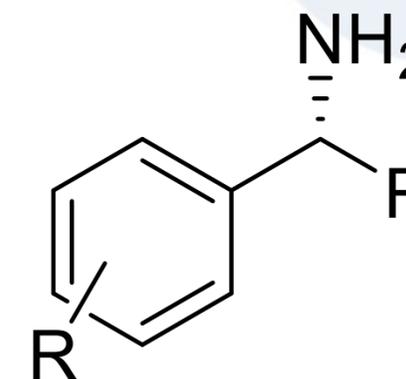
Limitations

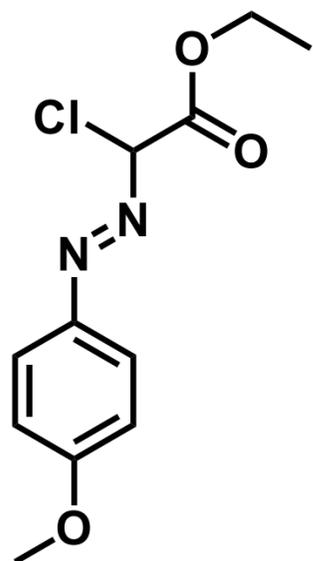
- **Isotope labelling**
- **Reaction at Temp higher than 160 C**
- **Cyanation Reaction using Cyanide salt like NaCN, KCN.**

Achievement so far.....

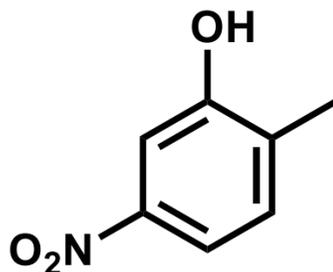
**Our R&D is operational since March 2023,
Since then, we have achieved many breakthroughs, in the area of Custom Synthesis
and Process development.**

- Med Chem: Identified a lead compound for Anti-Bacterial activity (Modified natural product). Lead optimization is in process.
- Developed sustainable process as an alternative to transamination:
- Boc and Fmoc protection of Amino acids:
- Successfully delivered ten projects on sustainable process development for important KSMs of API / Agrochemicals / Cosmetic ingredients.
- Process development for manufacturing of peptide coupling agent
- Impurity synthesis: five process impurities for API were synthesized and delivered.

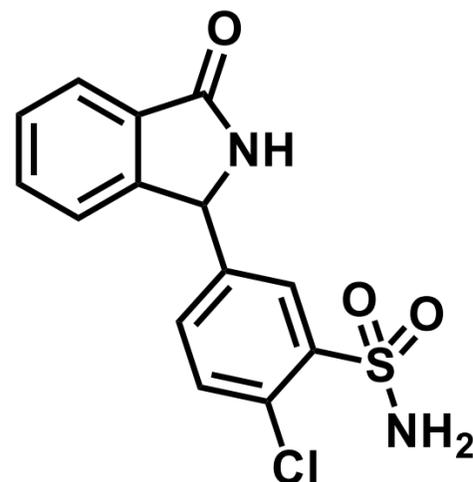




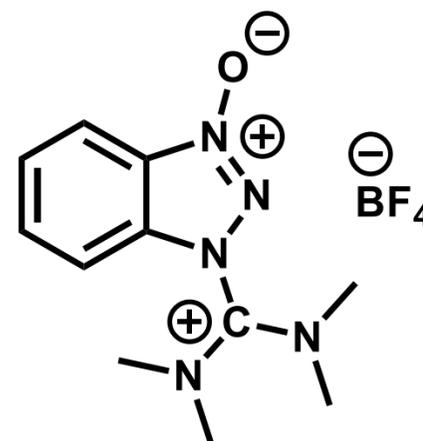
Apixaban KSM



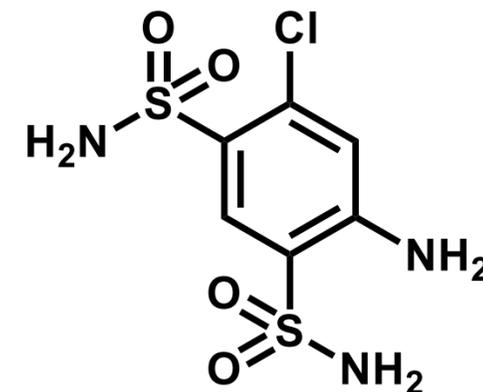
Intermediate



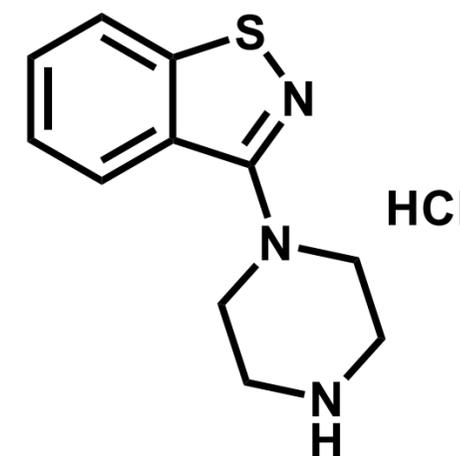
Chlorphthalidone KSM



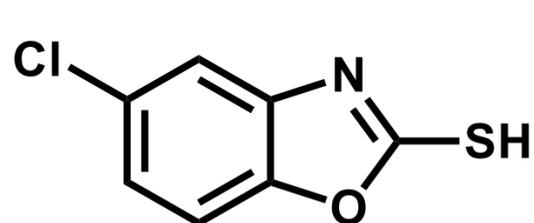
TBTU



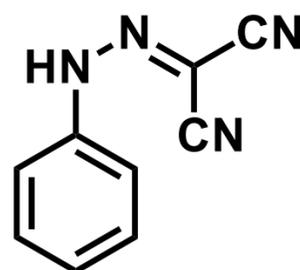
Chlorothiazide KSM



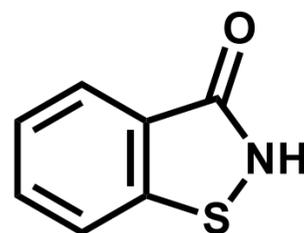
Ziprasidone KSM
Lurasidone KSM



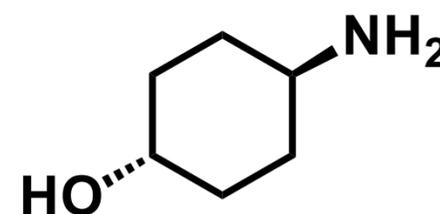
Suvorexant KSM



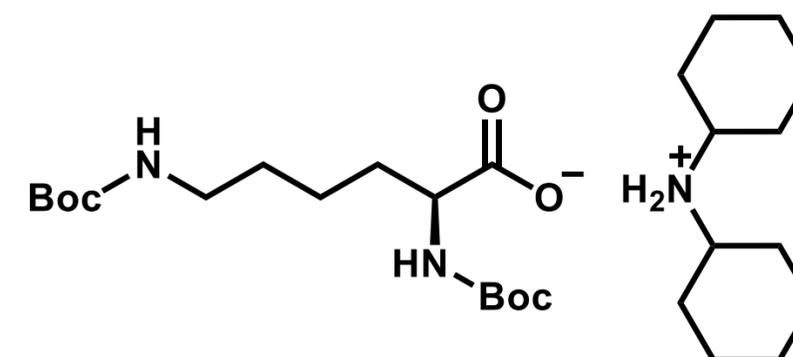
Vericiguat RM



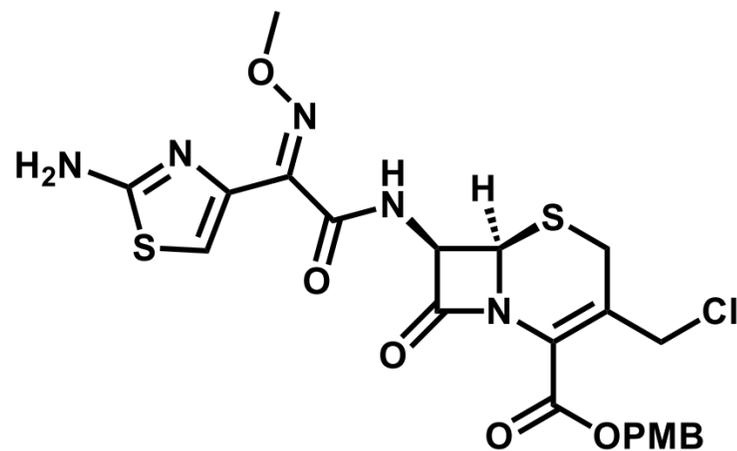
Ziprasidone KSM



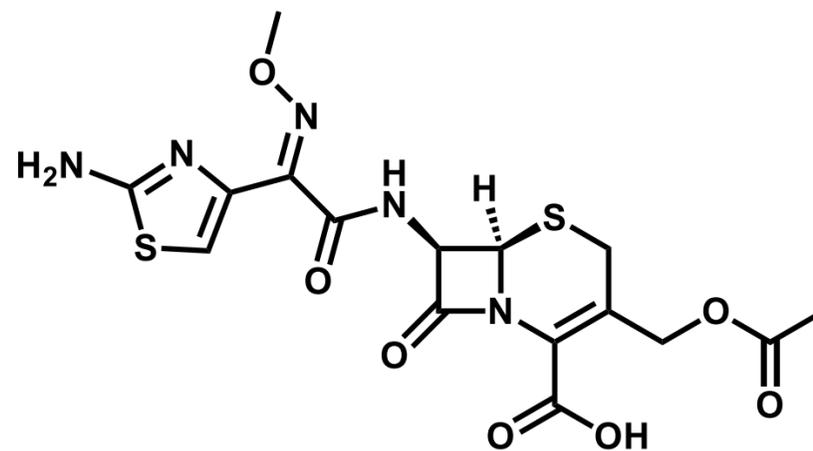
Ambroxol:HCl KSM



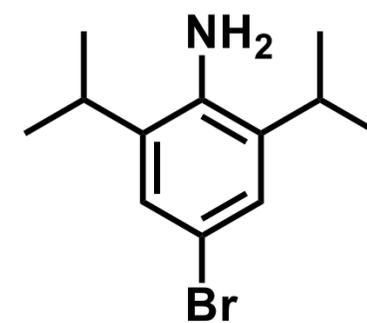
N,N-Di-Boc-L-lysine Dicyclohexyl-
ammonium Salt



Cephaloporins Intermediate

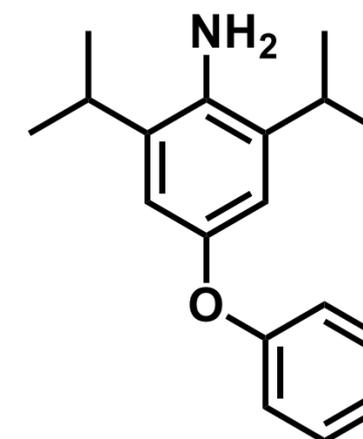


Cefotaxime



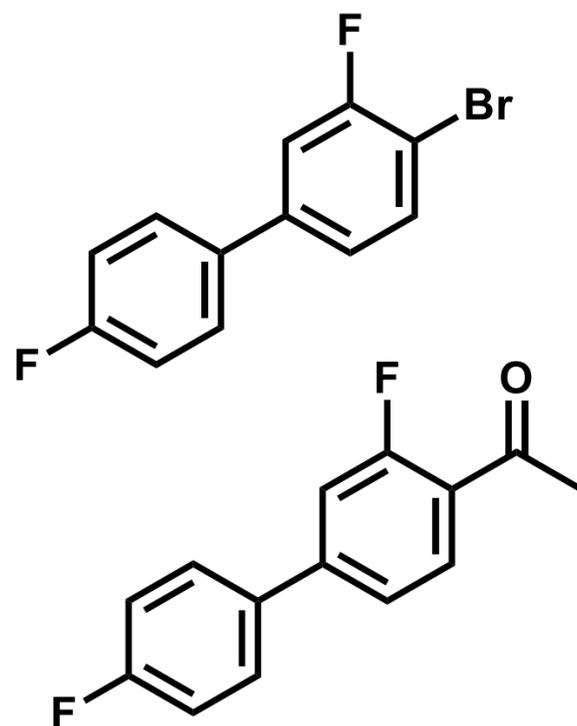
CAS No. 80058-84-0

Diafenthiuron Intermediate

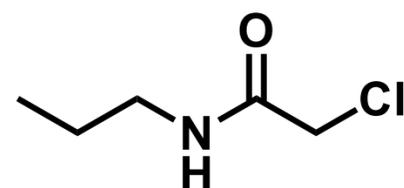


CAS No. 80058-85-1

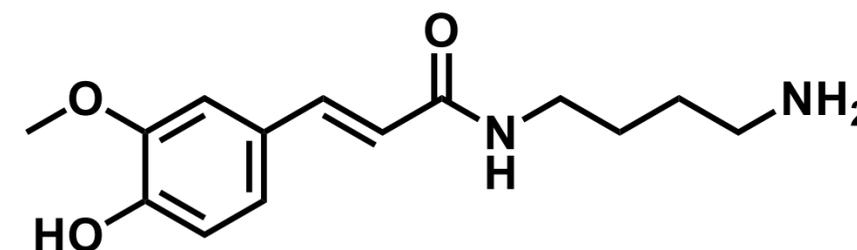
Diafenthiuron Intermediate



Mesdopetam RM



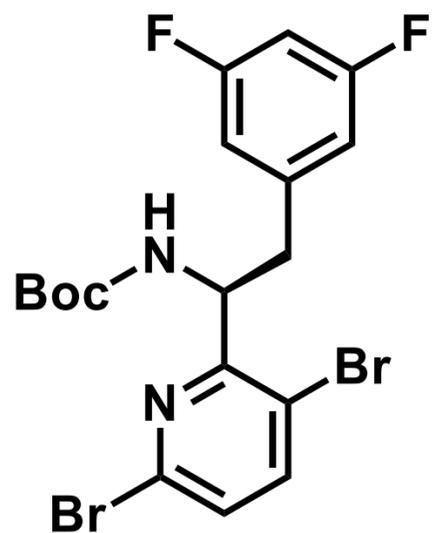
NCE RM



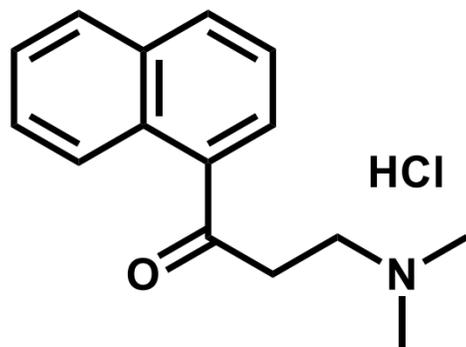
Feruloylputrescine

Feruloylputrescine is a natural product found in citrus plants. Feruloylputrescine inhibits monooxygenase (cntA) and reductase (cntB) and trimethylamine production. Feruloylputrescine is used for cardiovascular diseases research.

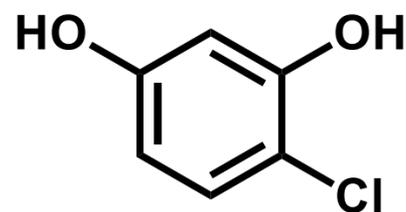
Process Development



Lenacapavir KSM

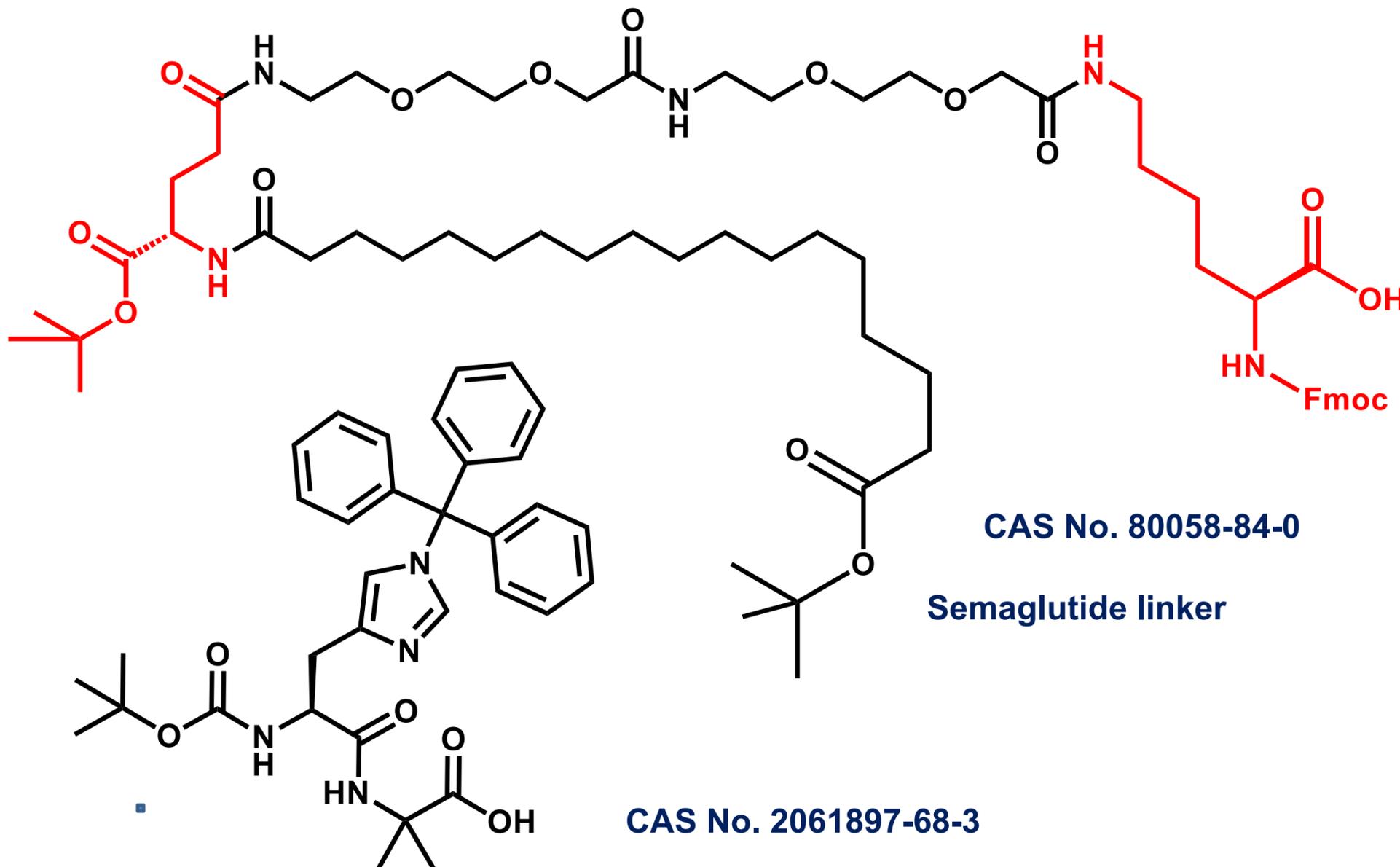


Bedaquiline KSM



Cosmetic Ingredient

Custom Synthesis



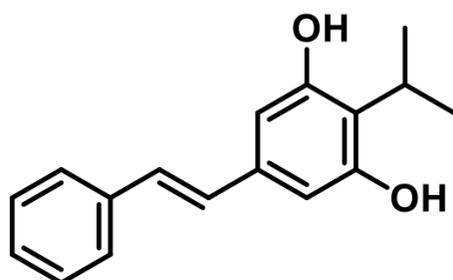
CAS No. 80058-84-0

Semaglutide linker

CAS No. 2061897-68-3

Semaglutide Intermediate

TAPINAROF



Tapinarof is a first-in-class aryl hydrocarbon receptor (AhR) agonist, approved by the U.S. FDA in 2022 for the treatment of psoriasis and atopic dermatitis.

Name : N-(2-(3-fluoro-5-(methylsulfonyl)phenoxy)ethyl)propan-1-amine

Synonyms: Tapinarof / ArH receptor agonist

Stats : Launched in US for treatment of psoriasis and atopic dermatitis.

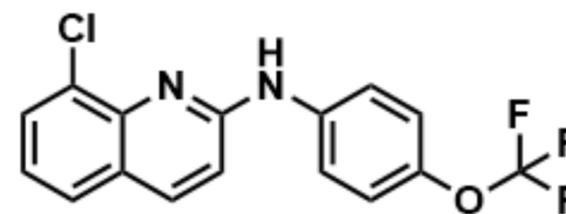
CAS No. : 79338-84-4

MF : C₁₇H₁₈O₂

MW : 254.33

Purity : NLT 98%

Obefazimod / ABX464



Obefazimod (ABX464) is a first-in-class small-molecule immunomodulator known to upregulate microRNA-124 and is widely investigated for chronic inflammatory indications..

Name : 8-chloro-N-(4-(trifluoromethoxy)phenyl)quinolin-2-amine.

Synonyms: Obefazimod / ABX464

Stats : Phase-III clinical trial for Ulcerative Colitis.

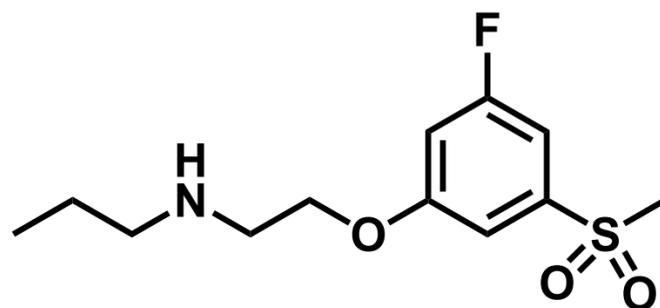
CAS No. : 1258453-75-6

MF : C₁₆H₁₀ClF₃N₂O

MW : 338.7

Purity : NLT 98%

MESDOPETAM



Mesdopetam (IRL790) functions as a dopamine D3 receptor antagonist, showing a K_i value of 90 nM and an IC_{50} of 9.8 μ M for the human recombinant D3 receptor. It possesses psychomotor stabilizing properties and is utilized in the study of motor and psychiatric issues associated with Parkinson's disease. The compound's salt and free forms exhibit similar biological activity at equivalent molar concentrations. The salt form, Mesdopetam hemitartrate, offers improved water solubility and stability.

Name : N-(2-(3-fluoro-5-(methylsulfonyl)phenoxy)ethyl)propan-1-amine

Synonyms: Mesdopetam / IRL790

Stats : Phase I/Phase III Clinical trial for PD

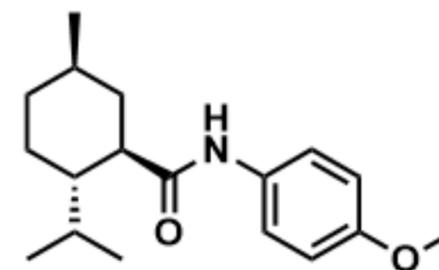
CAS No. : 1403894-72-3

MF : $C_{12}H_{18}FNO_3S$

MW : 275.34

Purity : NLT 98%

ACOLTREMON



Acoltremon acts as an agonist of the transient receptor potential melastatin 8 (TRPM8) thermoreceptor, a cold-sensing ion channel found on corneal sensory nerves. By activating TRPM8, Acoltremon stimulates trigeminal nerve signaling, which leads to a rapid increase in natural basal tear production. This neuromodulatory effect directly addresses tear deficiency, a key factor in dry eye disease.

Name : Acoltremon

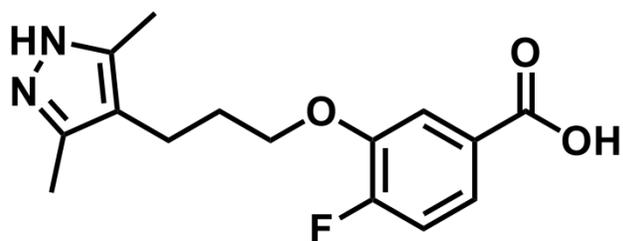
Stats : Approved Drug (US FDA: May 2025)

CAS No. : 68489-09-8

MF : $C_{18}H_{27}NO_2$

MW : 289.42

ACORAMIDIS



Acoramidis has been approved by the U.S. FDA in November 2024 for the treatment of transthyretin amyloid cardiomyopathy (ATTR-CM).. Acoramidis functions as a near-complete TTR stabilizer, aiming to reduce cardiovascular death and hospitalizations, making it a significant advancement in the management of ATTR-CM.

Name : Acoramidis

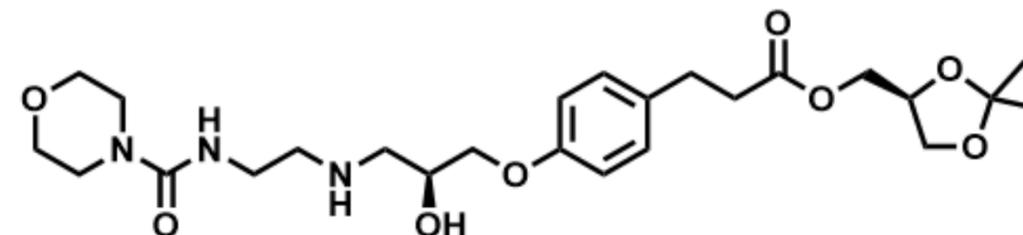
Stats : Approved Drug (US FDA: Nov. 2024 / EU Feb. 2025)

CAS No. : 1446711-81-4

MF : C₁₅H₁₇FN₂O₃

MW : 292.31

LANDIOLOL



Landiolol is an ultra-short-acting, highly selective beta-1 blocker approved by the US FDA in 2022 for the rapid control of heart rate in atrial fibrillation, atrial flutter, and tachycardia. With its fast onset, short half-life, and minimal impact on blood pressure, it offers precise and safe heart rate management, making it ideal for critical care and perioperative use.

Name : Landiolol

Stats : Approved in Japan (2002) / US (2024)

epilepsy, focal onset seizures, panic disorder,
and other anxiety disorders.

CAS No. : 133242-30-5

MF : C₁₂H₂₁FN₄O₃S

MW : 509.60

Our expertise in Chemistry.....

- Asymmetric synthesis.
- Functional group transformative reactions (Oxidation, Reduction substitution)
- Synthesis of Borane reagents: Boronic acids, Boronic esters, Fluoroborates,
- Ammonia-Borane, amino-boranes.
- Fluorination: Synthesis of fluoro-intermediates
- Chlorination, Bromination, Nitration reactions
- C-C, C-N coupling reactions
- Grignard reagents, n-BuLi, 9-BBN, Ipc₂BOMe can be handle upto Kg scale.
- Phosphoramidites and H-Phosphonates (building blocks for oligonucleotide synthesis)
- Protected natural and modified amino acids.
- Carbohydrates and heterocyclic intermediate synthesis.



SynVision Chem

Our expertise in Sustainable Process Development

Unprecedented “In Water” Imidazole Carbonylation: Paradigm Shift for Preparation of Urea and Carbamate

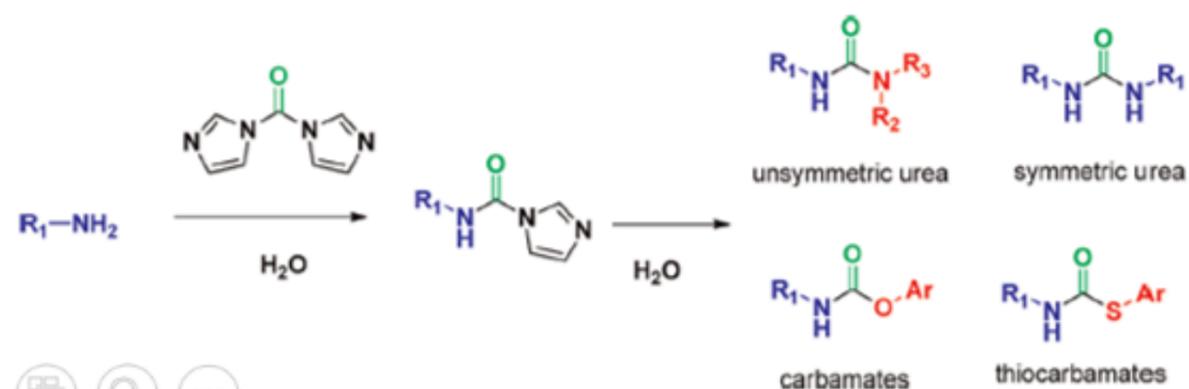
Kamlesh J. Padiya,^{*,†} Sandip Gavade,[‡] Bhavana Kardile,[†] Manojkumar Tiwari,[‡] Swapnil Bajare,[†] Madhav Mane,[‡] Vivek Gaware,[‡] Shaji Varghese,[‡] Dipak Harel,[‡] and Suresh Kurhade[‡]

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ABSTRACT



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The paper was highlighted in OPRD
Safety Notables: Information from the Literature
Org. Proc. Res. Dev. 2012, 16, 12, 1980-1985

Some Items of Interest to Process R&D Chemists and Engineers
Org. Proc. Res. Dev. 2012, 16, 7, 1244-1257

Urea Derivatives in Modern Drug Discovery and
Medicinal Chemistry
J. Med. Chem. 2020, 63, 6, 2751-2788

Organic Carbamates in Drug Design and Medicinal
Chemistry
J. Med. Chem. 2015, 58, 7, 2895-2940



ORGANIC PROCESS RESEARCH & DEVELOPMENT

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pubs.acs.org/OPRD

Article

"On-Water" Reaction of (Thio)isocyanate: A Sustainable Process for the Synthesis of Unsymmetrical (Thio)ureas

Amit Dattatray Karche, Prabakaran Kamalakannan, Rajendra Powar, Gautham G. Shenoy, and Kamlesh J. Padiya*

Cite This: <https://doi.org/10.1021/acs.oprd.2c00266>

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Supporting Information

ABSTRACT: We describe a facile, sustainable, and chemoselective process for the synthesis of unsymmetrical (thio)ureas through the "on-water" reaction of (thio)isocyanates with amines. Detailed mechanistic studies revealed that the physical nature and solubility of reagents in water are responsible for the observed reaction rate and selectivity. Significant efforts have been made to design a scalable process to achieve the "zero waste" "water-mediated" protocol for the synthesis of (thio)ureas from (thio)isocyanates and amines. The decisive advantages of the process are the simple product isolation through filtration and the recycling of the water effluent. It also avoids the use of sensitive anhydrous reaction conditions and toxic volatile organic solvents. The developed process ensures that chemoselectivity and robustness and are successfully scaled-up to produce 100 g of isoproturon in high yield and purity. Green chemistry parameters such as process mass intensity, reaction mass efficiency, and molar efficiency values (with and without solvent) were calculated and compared.

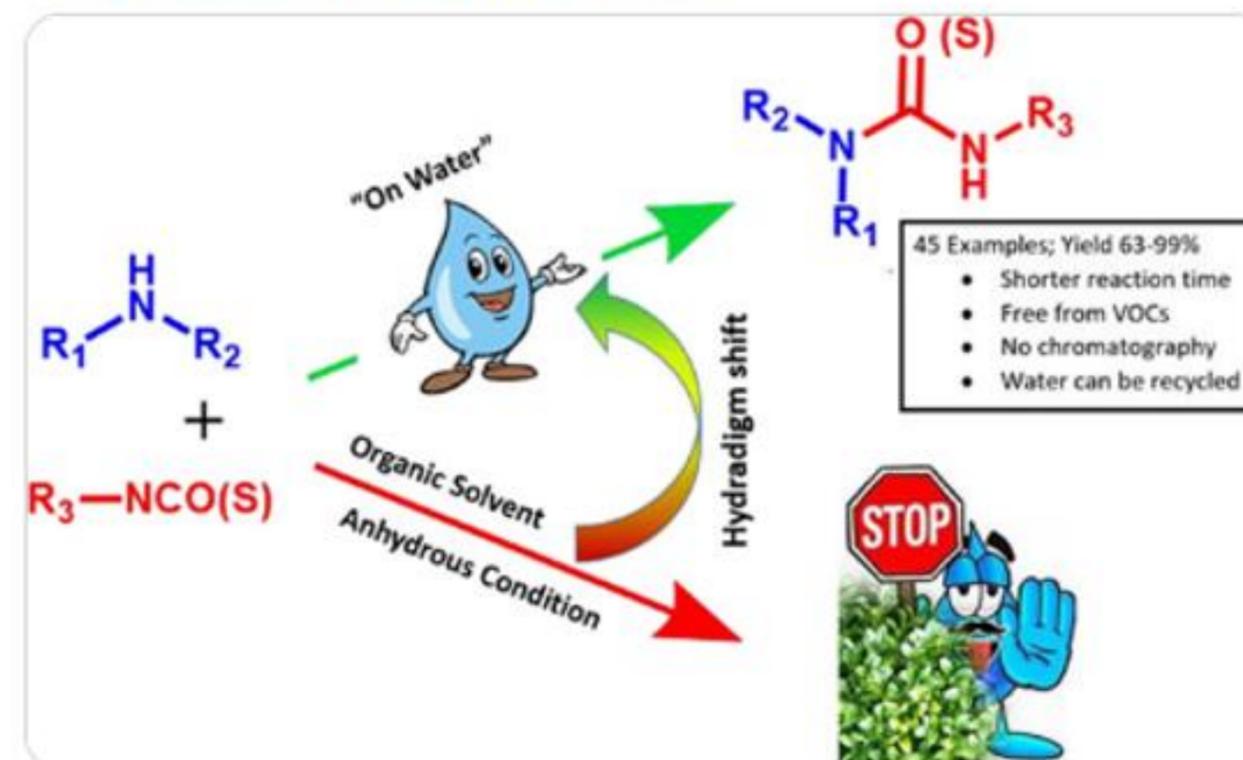
KEYWORDS: water-mediated synthesis, on-water synthesis, green chemistry, sustainable process, urea synthesis, thiourea synthesis



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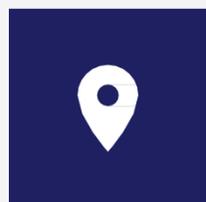
An easy, chemoselective, and sustainable synthesis of (thio)ureas via "On Water" reaction of (thio)isocyanates, work epitomizing a paradigm shift to the "hydradigm." Please have a look at the article from @PadiyaKamlesh and colleagues. Nice TOC graphic! pubs.acs.org/doi/10.1021/ac...





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THANK YOU!!