



CORPORATE PROFILE

ChemBridge® Corporation has been a global provider of enabling chemistry products and contract research services for small molecule drug discovery for more than 22 years. Our extensive portfolio includes more than 1 million diverse and target-focused screening compounds, more than 14,000 chemical building blocks, our Hit2Lead.com online chemical store, and high-end, research-intensive custom library and synthetic/medicinal chemistry services.

Overview

ChemBridge has provided over 30 million screening compounds and building blocks to hundreds of pharmaceutical, biotechnology, academic and non-profit organizations worldwide. These compounds support small molecule discovery and development programs in industry and have enabled many scientific discoveries in academia, as featured in over 1,500 scientific articles in leading research journals. Our track record of success as a discovery chemistry CRO includes major multi-year research collaborations with leading pharmaceutical companies. ChemBridge is a privately held US company founded by Eugene Vaisberg, Sergey Altshteyn and Gala Vaisberg in 1993. Since 1997 ChemBridge has been headquartered in San Diego where sales, marketing, customer support, and administration are located. ChemBridge has a European sales representative based in the United Kingdom and distributors in Japan, China, and Korea. Our offshore chemistry research and order packaging site is in Moscow, Russia. The Moscow research team includes synthetic and analytical chemists and a cheminformatics group.

Screening Compounds

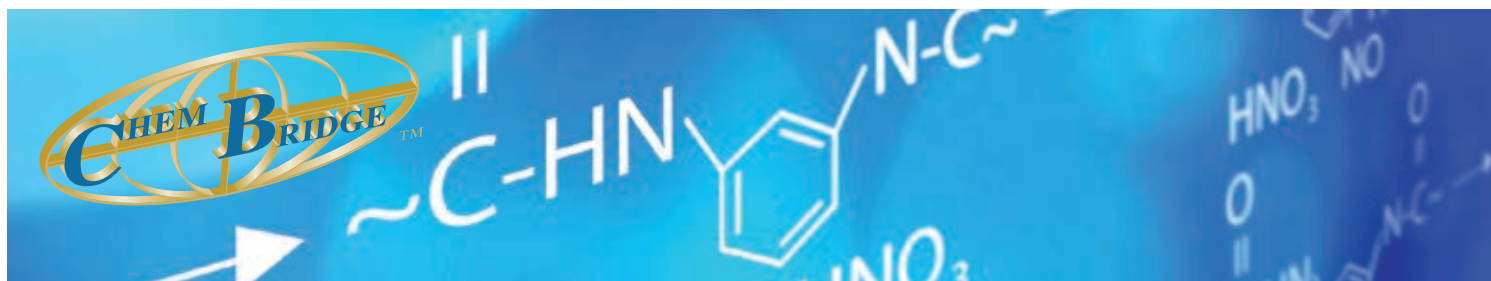
ChemBridge has been a provider of high quality screening compounds and libraries for more than 22 years and continues to produce novel, druglike and leadlike screening compounds based on the evolving requirements of drug discovery and chemical biology researchers in industry and academia. We currently offer more than 1 million druglike and leadlike screening compounds that are readily available from stock. Clients can custom select compounds from our two, non-overlapping stocks (EXPRESS-Pick™ Collection and CORE Library) or can choose from our selection of diversity or targeted/focused sets.

Building Blocks

Our building block collection, consisting of more than 14,000 products, has been developed to support medicinal chemists working on advanced hit-to-lead, lead generation, and lead optimization programs. All of our chemical building blocks undergo extensive quality control by NMR and LC-MS, and purity is guaranteed to be over 95%. Our chemical building blocks are listed in all major third-party databases and are available for on-line purchase via ChemBridge's Hit2Lead.com online chemical store. All building blocks are available from stock and the majority are available for RUSH delivery from our San Diego facility.

Chemistry

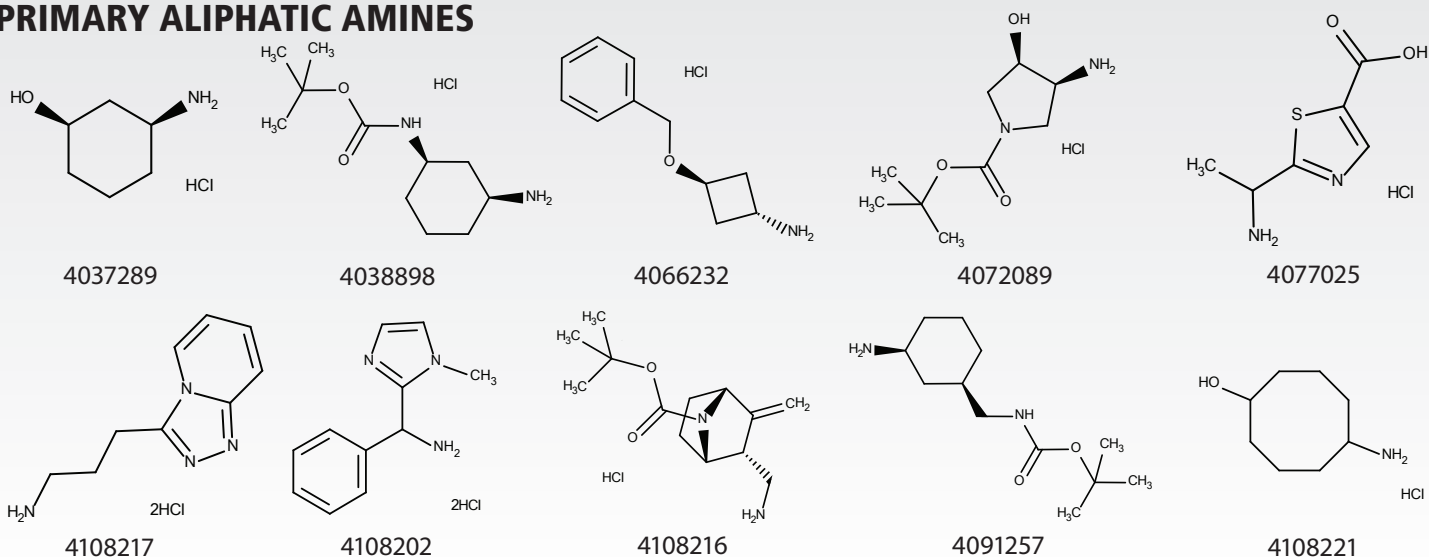
ChemBridge provides research, development, and production of custom chemical libraries on an exclusive basis for its partners. Our platform matches the most challenging quality standards of the world's leading pharmaceutical companies and enables us to deliver custom chemical libraries within our partners' demanding timelines. ChemBridge also has more than a decade of experience synthesizing exclusive building blocks and scaffolds and offers custom synthesis of individual compounds. Libraries and compounds are synthesized to the client's specifications and analytical requirements under fee-for-service and FTE based models.



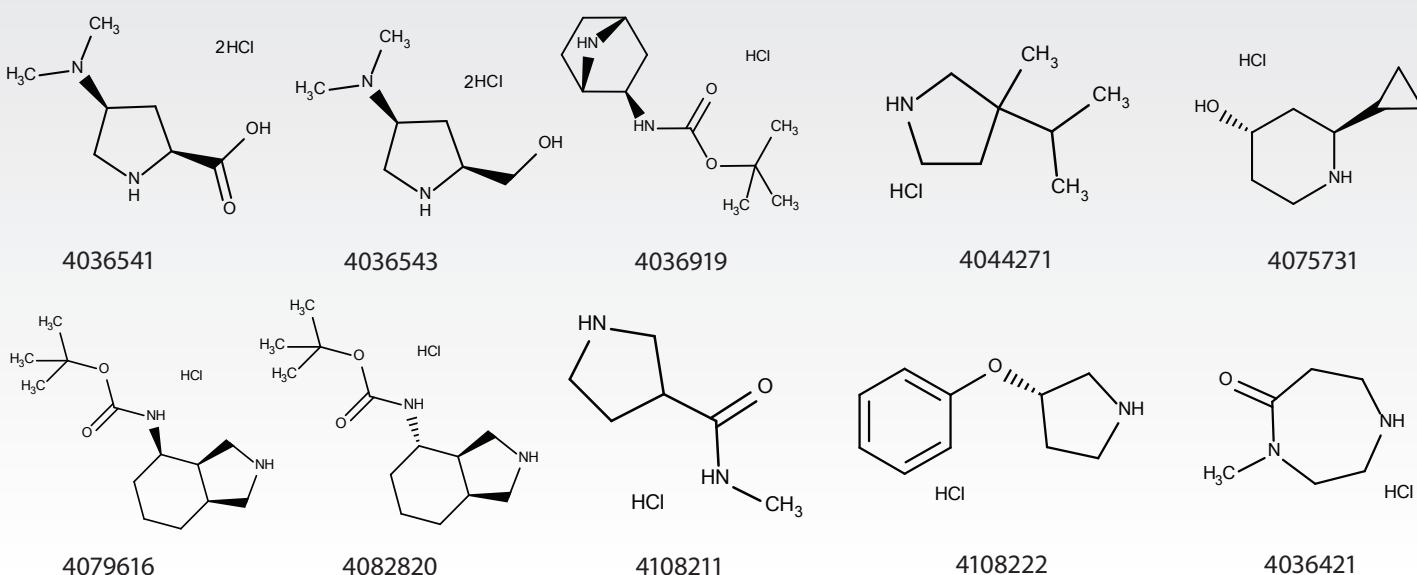
BUILDING BLOCKS FOR MEDICINAL CHEMISTS

- Over 14,000 unique reagents for medicinal chemistry and library synthesis
- Available from stock in San Diego for immediate delivery
- 24-48 hour rush order delivery; 7 day worldwide delivery
- Over 95% purity by NMR & LCMS
- San Diego-based Customer Support
- Check availability and pricing at our online store: www.Hit2Lead.com

PRIMARY ALIPHATIC AMINES

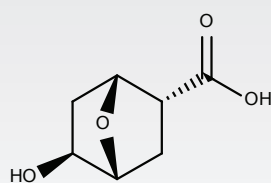


SECONDARY ALIPHATIC AMINES

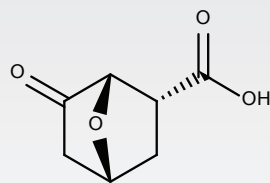


See reverse side for additional chemical classes ▶

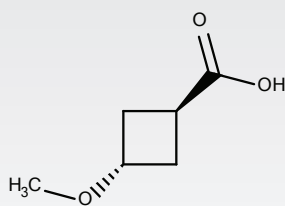
CARBOXYLIC ACIDS



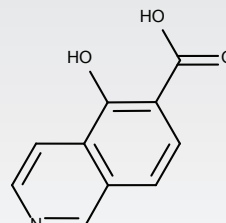
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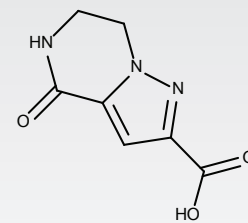
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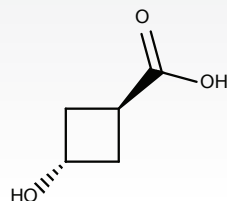
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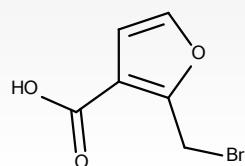
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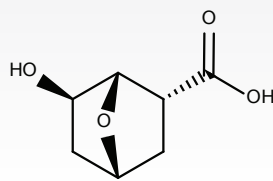
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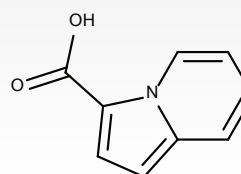
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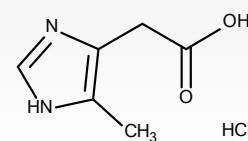
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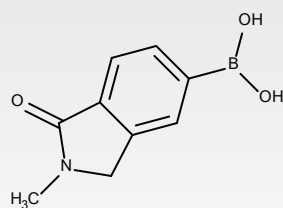


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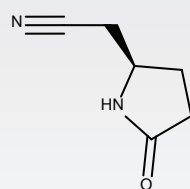


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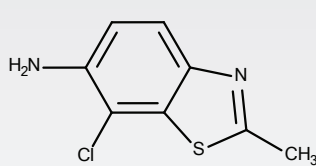
OTHER CHEMICAL CLASSES



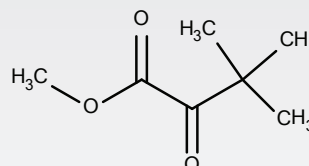
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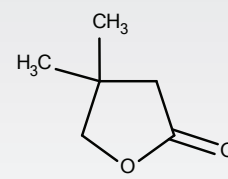
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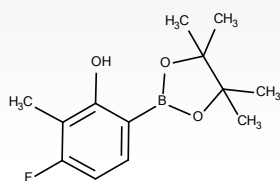
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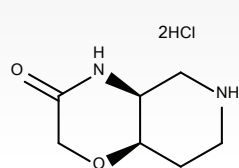
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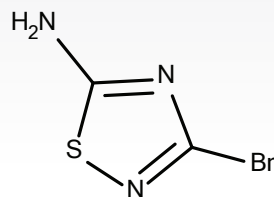
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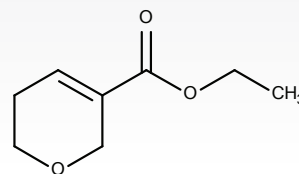
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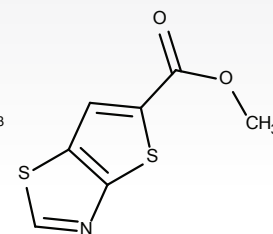
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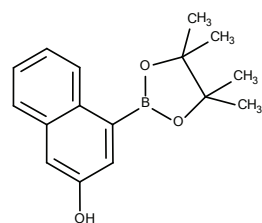
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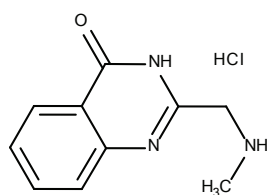
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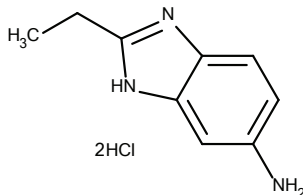
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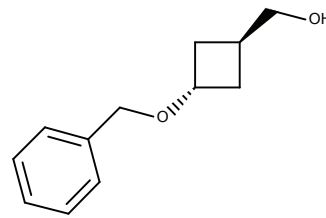
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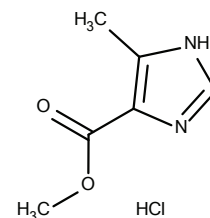
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SEARCH & ORDER Building Blocks at
ChemBridge's Hit2lead.com Online Chemical Store



SCREENING COMPOUNDS

ChemBridge® has been a provider of high quality screening compounds and libraries for more than 22 years and continues to produce novel, druglike and leadlike screening compounds based on the evolving requirements of drug discovery and chemical biology researchers in industry and academia. More than 1,500 scientific articles that cite ChemBridge libraries or compounds have been published in premier journals, such as Science, Nature Cell Biology, JACS, PNAS, JBC, Cancer Res., and others.

Overview

ChemBridge currently offers more than 1 million leadlike and druglike, small molecule screening compounds that are readily available from stock. Our stock grows by up to 100,000 compounds per year based on new designs developed and synthesized by ChemBridge and is split into two, non-overlapping parts: The CORE Library stock and the EXPRESS-Pick™ Collection stock. Clients can custom select compounds from one or both parts of our stock or can choose from pre-selected diversity libraries or targeted/directed libraries created by ChemBridge from our stock of more than 1 million screening compounds.

CORE Library

Our in-house designed CORE Library stock of small molecule screening compounds (8-digit IDs) offers more than 620,000 compounds and is produced from more than 710 novel scaffolds synthesized by ChemBridge with final compounds drawing on our Building Block Collection. These compounds are designed to cover unique chemical space not available from our EXPRESS-Pick Collection stock or other commercial libraries. The newest CORE Library scaffolds are sp³-enriched to reflect the increasing interest in less planar, more 3-dimensional structures. Clients can custom-select from the CORE Library stock, and ChemBridge draws from the CORE Library stock to create diversity libraries such as the DIVERSet®-CL, PremiumSet™, and CombiSet and targeted/focused offerings such as the GPCR, KINACore™, NHRCORE™ and IONCore™ libraries. Delivery in mg or umol amounts is available as dry samples or DMSO solutions.

EXPRESS-Pick

This collection of small molecule screening compounds contains more than 460,000 handcrafted chemical compounds. Our EXPRESS-Pick Collection stock compounds (7-digit IDs) are selected using novelty, diversity, druglike properties, and chemical structure analyses based on almost two decades of library design and medicinal chemistry experience. The EXPRESS-Pick Collection stock covers a broad area of chemical space, offering diverse classes of compounds with analogs to support initial SAR work. Clients can custom-select from the EXPRESS-Pick Collection stock, and ChemBridge draws from this collection to create diversity libraries such as the DIVERSet-EXP, PremiumSet, and MicroFormat Libraries, and to create our Fragment Library and our targeted/ focused offerings such as the KINASet™, CNS-Set™, and IONSet™ Libraries. Delivery in mg or umol amounts is available as dry samples or DMSO solutions.



DIVERSITY LIBRARIES

ChemBridge® draws from its extensive stock to create diversity libraries that provide our clients access to small molecule libraries offering diverse chemotypes and pharmacophores at attractive prices. These diversity libraries provide ideal starting points for clients looking for a wide range of chemical structure diversity to screen against targets from many classes or where little biological information is available to support targeted or focused screening.

DIVERSet

ChemBridge offers two, complementary DIVERSet® Libraries: The DIVERSet-EXP Library and the DIVERSet-CL Library. Each library offers a diverse set of 50,000 compounds with extensive pharmacophore coverage for primary screening. Stringent druglike and desirable chemical group filters coupled with a 3D conformer analysis are used to select a diverse set of 50,000 druglike compounds for each library that offer maximum pharmacophore coverage and chemical structure diversity. DIVERSet-EXP Library compounds are selected from our EXPRESS-Pick™ Collection stock, and DIVERSet-CL Library compounds are selected from our CORE Library stock. The DIVERSet libraries are ideal tools for screening programs that require high diversity and quality druglike/leadlike compounds, and the two, complementary sets can be combined to create a 100,000 compound library that maintains overall diversity. Subsets starting at 10,000 compounds can be purchased from either DIVERSet Library, and both are available in 96-well and 384-well format.

PremiumSet

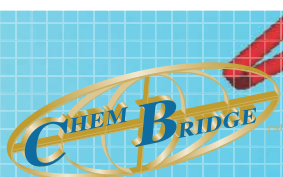
Our PremiumSet™ Library draws from both our EXPRESS-Pick Collection stock and our CORE Library stock. The PremiumSet Library provides a library of 50,000 compounds that have been selected to provide chemical structure diversity and also offer the most attractive features found in druglike and leadlike compounds. Based on almost two decades of experience providing commercial screening libraries and the production of hundreds of exclusive libraries for major clients, ChemBridge has developed our proprietary SCORE program that identifies chemical structure features considered to be highly attractive by researchers working in drug discovery and chemical biology. The PremiumSet Library features some of the most diverse and attractive compounds from our two, non-overlapping, screening compound stocks. Subsets starting at 10,000 compounds can be purchased from the PremiumSet Library, and the PremiumSet Library is available in 96-well or 384-well format.

CombiSet

The 30,000-compound CombiSet Library offers a selection of compounds from our CORE Library stock at a lower cost point than a custom, cherry-picked selection. Multiple scaffolds are represented, with a sampling of final compounds around each of the scaffolds. Subsets of 10,000 and 20,000 compounds are available, and the CombiSet Library can be provided in 96-well or 384-well format.

MicroFormat

The MicroFormat Library provides compounds in pre-plated format selected from the 460,000 compound EXPRESS-Pick Collection stock, offering access to a large number of compounds at an attractive price point. MicroFormat compounds can be combined with DIVERSet Library, PremiumSet™ Library or CombiSet Library compounds to expand to larger library sizes using pre-plated formats. Available in 96-well or 384-well format.



TARGETED & FOCUSED LIBRARIES

ChemBridge® offers small-molecule sets targeted or focused towards specific targets or applications. Our targeted and focused libraries originate from both our CORE Library stock and our EXPRESS-Pick™ Collection stock of small molecule screening compounds. Clients can custom select/cherry-pick compounds from any of the sets.

Kinase

ChemBridge offers the KINASet™ Library and the KINACore™ Library. The KINASet Library is a computationally selected group of more than 10,000 small molecules from our EXPRESS-Pick Collection stock chosen using a ligand-based pharmacophore search query based on pharmacophores generated from the adenosine portion of ATP. KINASet compounds also exhibit other pharmacophores which may contribute to selectivity towards more specific kinases. The KINACore Library is a computationally selected library of more than 12,000 small molecules from ChemBridge's CORE Library stock. The KINACore Library is composed of two components: Compounds selected using the same methods used in selecting KINASet candidates (adenosine pharmacophores) and compounds selected using pharmacophores generated from known kinase actives. More than 380 core scaffolds are represented in the KINACore Library.

GPCR

The GPCR Library contains more than 10,000 scaffold-based compounds designed using a series of GPCR-relevant scaffolds that mimic the beta-turn motif of endogenous peptide ligands. A random selection taken from the entire GPCR Library has been validated against GPCR targets with both agonists and antagonists being identified. GPCR Library compounds are part of ChemBridge's CORE Library stock.

Ion Channel

ChemBridge offers the IONSet™ Library and the IONCore™ Library. IONSet is a computationally selected group of more than 5,000 small molecules selected from our EXPRESS-Pick Collection stock. It contains compounds biased towards ligand-gated (5HT3, GABA, glycine, nAChR & PCP receptors) and voltage-gated (sodium, potassium & calcium) ion-channels. Compounds were selected using published pharmacophore data for active compounds. The IONCore Library is a computationally selected library of more than 7,000 small molecules selected from ChemBridge's CORE Library stock. Compounds were selected using pharmacophores generated from known ion channel actives. More than 290 core scaffolds are represented in the IONCore Library.

Nuclear Receptor

The NHRCore™ Library is a computationally selected library of more than 3,000 small molecules selected from ChemBridge's CORE Library stock. Compounds were selected using pharmacophores generated from known nuclear hormone receptor actives. More than 230 core scaffolds are represented in the NHRCore Library.

CNS

The CNS-Set™ is a biased set of more than 50,000 druglike small molecules selected from the EXPRESS-Pick Collection stock using physicochemical property filters including the Lipinski Rules of Five, PSA (polar surface area) and other filters that increase probability of BBB (blood-brain barrier) penetration and bioavailability.