



HIGHLY DIVERSE PRIMARY SCREENING TOOL

DIVERSet Library

Highlights

- Structurally diverse, high-quality, lead-like compounds with increased 3D character
- Economical access to large numbers of diverse compounds in a pre-selected, pre-plated format
- Designed to allow for expansion as new DIVERSet Library blocks are released
- The DIVERSet® Library has led to hundreds of citations in scientific publications

Introduction

For hit finding across existing, novel and orphan targets, ChemBridge® offers structurally diverse compounds in economical, pre-plated format. These pre-plated libraries are suitable for biochemical assays, phenotypic assays, and assays using model organisms such as bacteria, yeast, *C. elegans*, zebrafish or *Arabidopsis*. ChemBridge's pre-plated DIVERSet Library compounds (along with pre-plated CNS-MPO Library and pre-plated D-CL Library compounds), have been used for research and drug discovery across many disease areas resulting in hundreds of citations in published research articles.

Researchers can select from different diversity blocks of 10,000 compounds each with the option to build libraries from 10,000 compounds up to 100,000 compounds or more. There is also an option to purchase half a block, allowing the flexibility to purchase as few as 5,000 compounds for pilot screens or assays with more limited throughput. The pre-plated libraries are available as 10mM DMSO solutions (or in dry film format) and can be provided in 384-well or 96-well format including formatting in plates compatible with acoustic liquid handling systems. ChemBridge continues to expand our pre-plated diversity offering by releasing new diversity blocks as new compounds based on novel, proprietary ChemBridge designs are added to our stock.

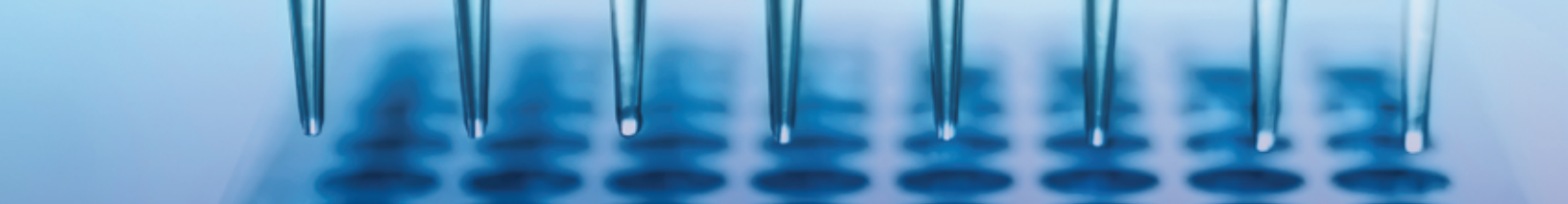
Composition

Diverse, Pre-plated, CORE Library Stock Compounds

The DIVERSet Library is composed of blocks (10,000 compounds each) of diverse, pre-plated compounds from either our CORE Library Stock or our EXPRESS-Pick™ Stock.

All compounds are from ChemBridge's CORE Library Stock that represents our internally designed and synthesized, lead-like compounds.

- Multiple CORE Library Stock pre-plated blocks are available (non-overlapping and complementary). This includes DIVERSet-CL Library blocks, which can be further supplemented with pre-plated CNS-MPO Library blocks and pre-plated D-CL Library blocks
- Each block offers structurally diverse compounds, high scaffold diversity, and a high count of unique pharmacophores
- Compounds are lead-like and meet Lipinski drug-like rules and more stringent rules for lead-like compounds such as Veber's rules
- DIVERSet-CL Library blocks contain 50% or more CNS-compliant compounds, based on their lead-like properties; for 100% CNS-compliant blocks, see the pre-plated CNS-MPO Library blocks



Properties for all pre-plated CORE Library Stock compounds are closely aligned with CORE Library Stock properties, which are listed below:

Molecular Weight Average = 337

Fsp3 Average = 0.465

clogP Average = 1.5

TPSA Average = 65.7

H-bond Donor Count Average = 1.0

H-bond Acceptor Count Average = 3.9

Rotatable Bond Count Average = 4.5

Diverse, Pre-plated, EXPRESS-Pick Stock Compounds

All compounds are from ChemBridge's EXPRESS-Pick Stock that includes lead-like compounds and traditional drug-like (Rule of 5) compounds.

- The EXPRESS-Pick Stock has no overlap with the internally designed and synthesized CORE Library Stock compounds and offers additional chemotypes not represented in the CORE Library Stock
- Multiple pre-plated DIVERSet-EXP Library blocks are available (non-overlapping and no overlap with pre-plated blocks from the CORE Library Stock)

Properties for pre-plated EXPRESS-Pick Stock compounds are closely aligned with EXPRESS-Pick Stock properties, which are listed below:

Molecular Weight Average = 323

clogP Average = 2.9

TPSA Average = 58.7

H-bond Donor Count Average = 0.9

H-bond Acceptor Count Average = 3.3

Rotatable Bond Count Average = 3.2

Format

- Custom select from all available pre-plated compound blocks, including DIVERSet Library, Pre-plated CNS-MPO Library, and D-CL Library blocks
- Available in 384-well and 96-well formats including 384-well acoustic qualified plates
- Amounts as low as 0.25 micromole (25ul of 10mM DMSO solution) available

Structure File

For a file of structures, please email sales@chembridge.com



ChemBridge Corporation
San Diego, CA, USA
Telephone: (858) 451-7400
sales@chembridge.com
www.chembridge.com

© 2024 ChemBridge Corp. All rights reserved. ChemBridge and DIVERSet are trademarks registered in the US Patent and Trademark Office belonging to ChemBridge Corp.

Rev. 20240906