

# MAYBRIDGE Ro3 DIVERSITY FRAGMENT LIBRARY



...the industry leading library for fragment based drug screening

## INTRODUCING THE 4<sup>TH</sup> GENERATION OF MAYBRIDGE FRAGMENT LIBRARIES

Building on the success of earlier Maybridge Fragment Libraries and 50 years of experience in designing pharmacophorically-rich compounds, the new Maybridge Ro3 Diversity Fragment Library provides an abundant source of optimizable hits through:

- **Pharmacophoric enrichment**

This library taps into a rich vein of novel heterocyclic compounds, to offer over 1,000 new products, many of these small molecules are exclusive to the Maybridge portfolio.

- **"Rule of Three" compliance**

100% fulfillment of "Rule of Three" (Ro3) physicochemical parameters delivers superior ADME attributes.

- **Assured solubility**

Individual testing of every compound guarantees solubility in both DMSO (200 mM) and aqueous phosphate buffer (1 mM) minimizes candidate attrition.

- **Superior diversity**

An industry leading library with a Tanimoto similarity index of 0.66 based on standard Daylight fingerprinting ensures excellent structural diversity.

- **Ideal starting point**

The majority of the compounds contain "linker-friendly" groups, such as amines, acids and hydroxyls, included to secure rapid evolution of hits into larger drug-like leads.

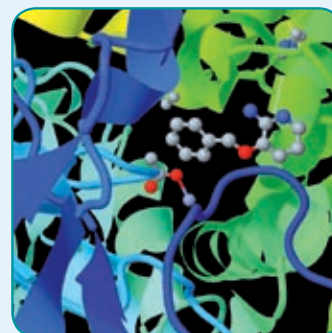
### THE MAYBRIDGE Ro3 DIVERSITY FRAGMENT LIBRARY IS AVAILABLE AS 500, 1,000 OR 1,500 COMPOUND LIBRARIES

Each library offers:

- The full pharmacophysical and diversity profile of the 1,500 compound library.
- Convenient pre-selected high value product.
- Varied scale entry points into fragment based drug discovery.
- All 1,500 compounds have been assayed at greater than 95% purity, with full analytical data supplied, including NMR spectra.

#### COMPLETE CONVENIENCE

Custom weighed to your requirements in milligram ( $\geq 5$  mg) or micromolar quantities ( $\geq 25$   $\mu$ mol) and selected to ensure rapid re-supply.



### ACCESS TO ANALOGUES FOR HIT TO LEAD DEVELOPMENT

With over 1,000 new building blocks added to our Organics portfolio annually, many Ro3 Fragments and close analogues are available in multigram quantities. This secures a range of functional groups to aid synthetic work following a hit.

For the full range visit: [www.maybridge.com](http://www.maybridge.com).

## LEADING THE WAY IN FRAGMENT LIBRARY DESIGN SINCE 2005

### 2005

The Maybridge Fragment Library

**One of the first commercially available fragment libraries**

- 500 compounds cherry-picked from the pharmacophore rich Maybridge building block portfolio

### 2007

The Maybridge Ro3 Fragment Library

**The first commercially available Ro3 compliant library.**

- 1,000 compounds computationally selected to provide:
  - Full "Rule of Three" compliance
  - High structural diversity
  - Pharmacophore rich fragments containing "linker-friendly" groups for hit evolution

**The Maybridge Fragment Collection**

- 30,000+ compounds
- Convenient access to the extensive Maybridge portfolio
- Powerful tool for building bespoke fragment screening libraries or searching for Hit analogues

### 2008

The Maybridge specialty Fragment Libraries

**Preselected for specific fragment screening technologies and a valuable source of reactive "pre-fragments" for hit expansion and development.**

- The Maybridge Bromo-Fragment Collection
  - 1,500+ bromine containing fragments for XRD based screening and hit evolution
- The Maybridge Fluoro-Fragment Collection
  - 5,000+ fluorine containing fragments ideal for <sup>19</sup>F NMR based screening
- The Maybridge Pre-Fragment Collection
  - A selection of reactive building blocks to grow your fragment hits

### 2009

The Maybridge Ro3 Fragment Library Solubility Upgrade

**The first commercially available fragment library with assured solubility.**

- Experimental solubility data acquired for each of the 1,000 Ro3 library compounds
- Each member of the library has been shown to dissolve in:
  - DMSO at 200 mM
  - PBS buffer (0.5% DMSO) at 1 mM
- The solubility assurance is an additional benefit to the Ro3 and diversity advantages of the original library

### 2010

The Maybridge Ro3 Diversity Fragment Library

**Developed with Fragment screening practitioners to provide the most practical and powerful fragment library available.**

- 1,500 compounds selected from the Maybridge and Acros Organics portfolios to provide:
  - Improved structural diversity
  - Access to a broader wider pool of analogues for "fragment hopping"
  - "Linker-friendly" groups allow for rapid hit evolution
  - Full "Rule of Three" compliance
  - Experimental solubility assurance for each compound in the library

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For more information please visit our web site [www.maybridge.com](http://www.maybridge.com) or contact your local distributor.