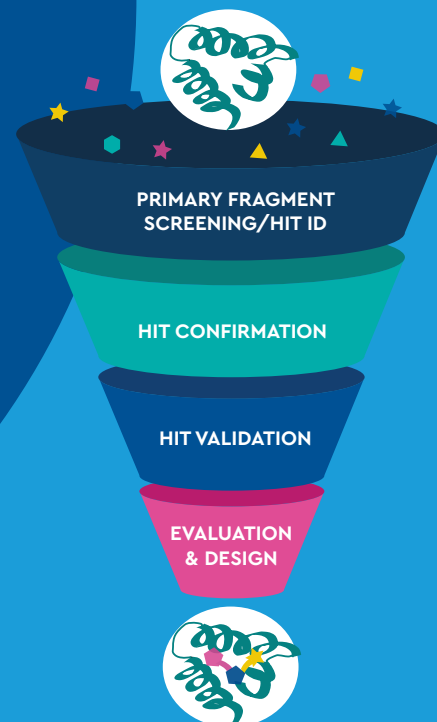




Fragment-based drug discovery

Discover our capabilities in design-driven process for efficient development of novel leads.



Selvita offers integrated FBDD platform for Hit ID, H2L, and Lead development

- ✔ In-depth expertise in the key scientific areas
- ✔ Case-to-case feasibility assessment
- ✔ Full integration of FBDD competencies:

Protein production and purification

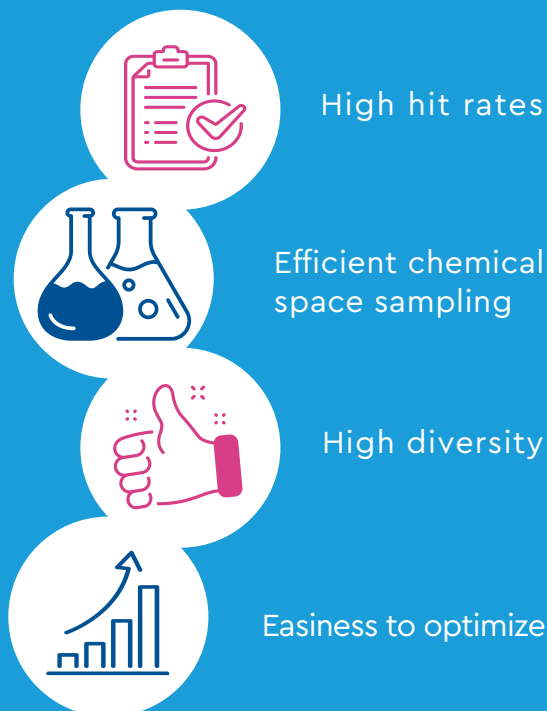
Biophysical binding techniques

X-ray crystallography

NMR and Mass Spectrometry

Computational chemistry

Synthetic and medicinal chemistry



We use well designed, diverse fragment library

- ✔ Comprehensive set of ~ 2000 fragments
- ✔ Drug-like physicochemical properties
- ✔ High structure diversity
- ✔ Experimentally assured high solubility
- ✔ Optimal molecular complexity
- ✔ No PAINS, REOS or toxicophore



We offer science-driven screening strategies and workflow for efficient FBDD campaigns

Biophysics

Orthogonal techniques for rapid fragment identification and validation (SPR, TRIC, DSF, FP, ITC, FRET/HTRF, RBA)

Quick data analysis with ranking of fragments

State-of-the-art high sensitivity instruments

Automated liquid handlers and dispensing systems

SELECTION OF MOST SUITABLE SCREENING APPROACH

Biophysics

X-ray Crystallography

Mass Spectrometry

NMR

X-ray Crystallography

Primary screening and hit validation

Modern protein production and crystallization laboratory

High-throughput crystallization capabilities

Regular access to synchrotron data collection

Automated data processing and structure solution pipelines

Mass Spectrometry

Ultra-HPLC for high resolution and sensitivity, and excellent peak shape

High-Resolution MS for covalent and non-covalent fragment screening

NMR

STD NMR screening of singletons and cocktails

Epitope mapping

COMPUTER AIDED DRUG DESIGN

Target druggability and binding pocket analysis

Fragment selection and docking mode prediction

In silico screening via AI/ML

Fragment merging, linking and growth strategies

CHEMISTRY

Classical synthesis based on CADD/AI suggestions

Parallel chemistry

Parallel purification

Non-classical transformations

**WANT TO
LEARN MORE?**

VISIT OUR WEBSITE
www.selvita.com

CONTACT US
sales@selvita.com