

Covalent Fragment Library

Diverse covalent warheads with balanced reactivity

7 887 compounds

Covalent chemical probes have become a hot topic in drug discovery within last few years. The impressive number of successful applications in protein drugability assessment and in investigation of enzymes functions brought aspiration to discovery of new covalent modifiers. However, further progress in this area is limited by availability of new covalent fragments with new structures and balanced molecular properties. We have recently elaborated parallel chemistry approaches to synthesis of new libraries encompassing covalent fragments of various classes.

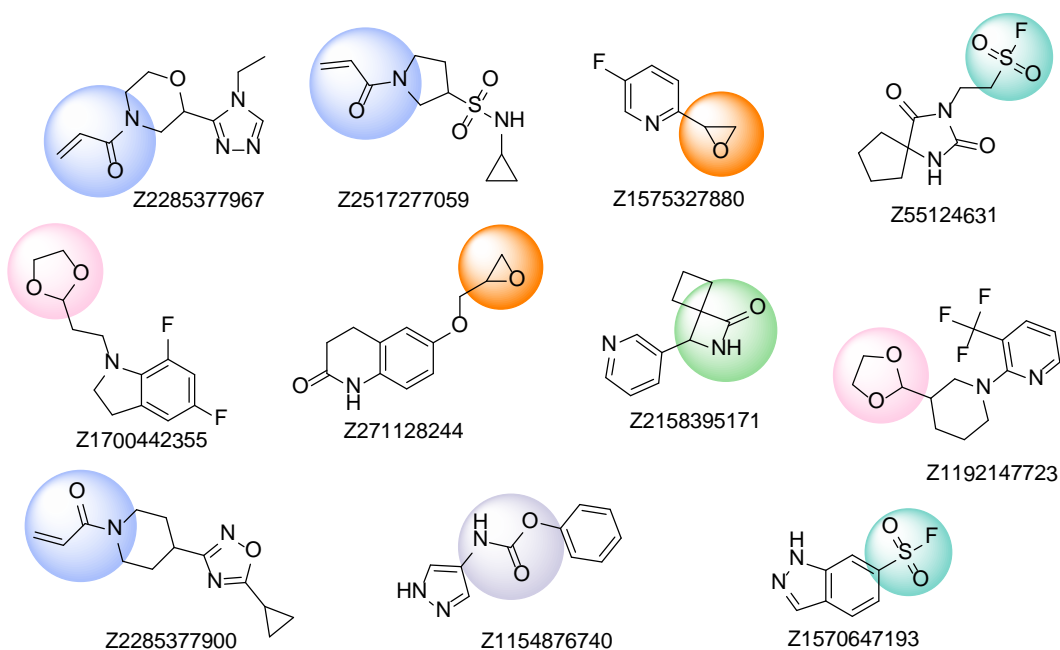
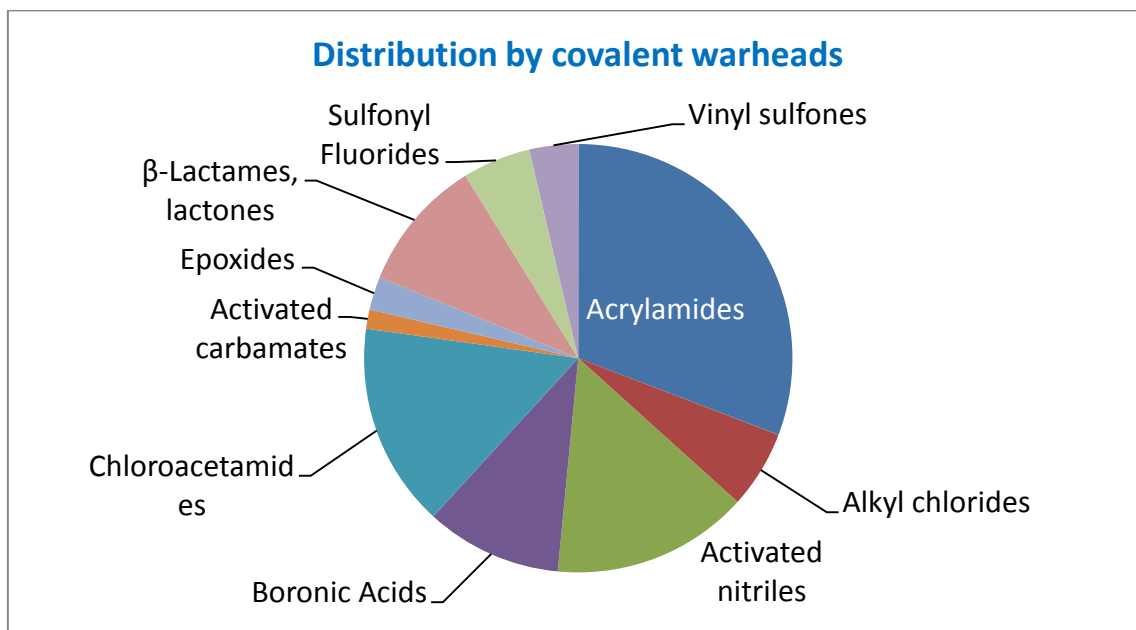
Our Covalent Fragment Library has been designed to encompass diverse compounds within each class of covalent binders. You can acquire either the entire diversity of fragments, 7,887 compounds, or focus on specific class of covalent binders. The compounds have been plated at 100 mM concentration in DMSO and can swiftly be supplied in multiple formats including the following most popular options:

| Option | Catalog ID | Library | Amount | Format |
|--------|----------------------|--|--|--|
| 1 | CFL-7887-Z-10 | Covalent Fragment Library 7 887 compounds | 10 μ L of 100 mM DMSO stock solutions | 1536-well microplates, Labcyte acoustic LDV |
| 2 | ACR-1920-Y-25 | Acrylamide Library 1 920 compounds | 25 μ L of 100 mM DMSO stock solutions | 384-well plates, Greiner Bio-one microplates, first and last columns empty |
| 3 | CLA-960-Y-50 | Clroracetamide Library 960 compounds | 50 μ L of 100 mM DMSO stock solutions | 384-well plates, Labcyte Echo qualified microplates, first two columns empty |
| 4 | BAF-640-X-50 | Boronic acid fragments 640 compounds | 50 μ L of 100 mM DMSO stock solutions | 96-well microplates, Greiner No. 6501xx, 80 cmpds per plate |
| 5 | SFF-320-X-100 | Sulfonyl fluoride fragments 320 compounds | 100 μ L of 100 mM DMSO stock solutions | 96-well plates, 2D-barcoded Matrix microtubes capped with sepraseals |

Please request for any other options. Please note that you can cherry pick from our [Covalent Fragment Collection](#).

Key features

- Careful choice of warheads: only *experimentally confirmed reactivity* reported in the literature!
- Fragments plated by classes that can be acquired separately
- Novel compounds featuring renowned Enamine Building Blocks



| | |
|----------------------------|------------------|
| MW | 110...320 |
| Heavy atoms | 8...21 |
| ClogP | -2...3 |
| HBD | ≤ 3 |
| HBA | ≤ 4 |
| RotB | ≤ 5 |
| TPSA, Å² | ≤ 100 |
| Aromatic | ≤ 2 |
| N+O count | 1...6 |