

Drugs that covalently bond to their biological targets have a long history in drug discovery. There is an increased interest in covalent therapeutics in the literature and recent years have witnessed a significant increase in the number of drug candidates with covalent mechanism of action progressing through clinical trials or being approved; moreover, about 30% of marketed drugs are covalent binders.

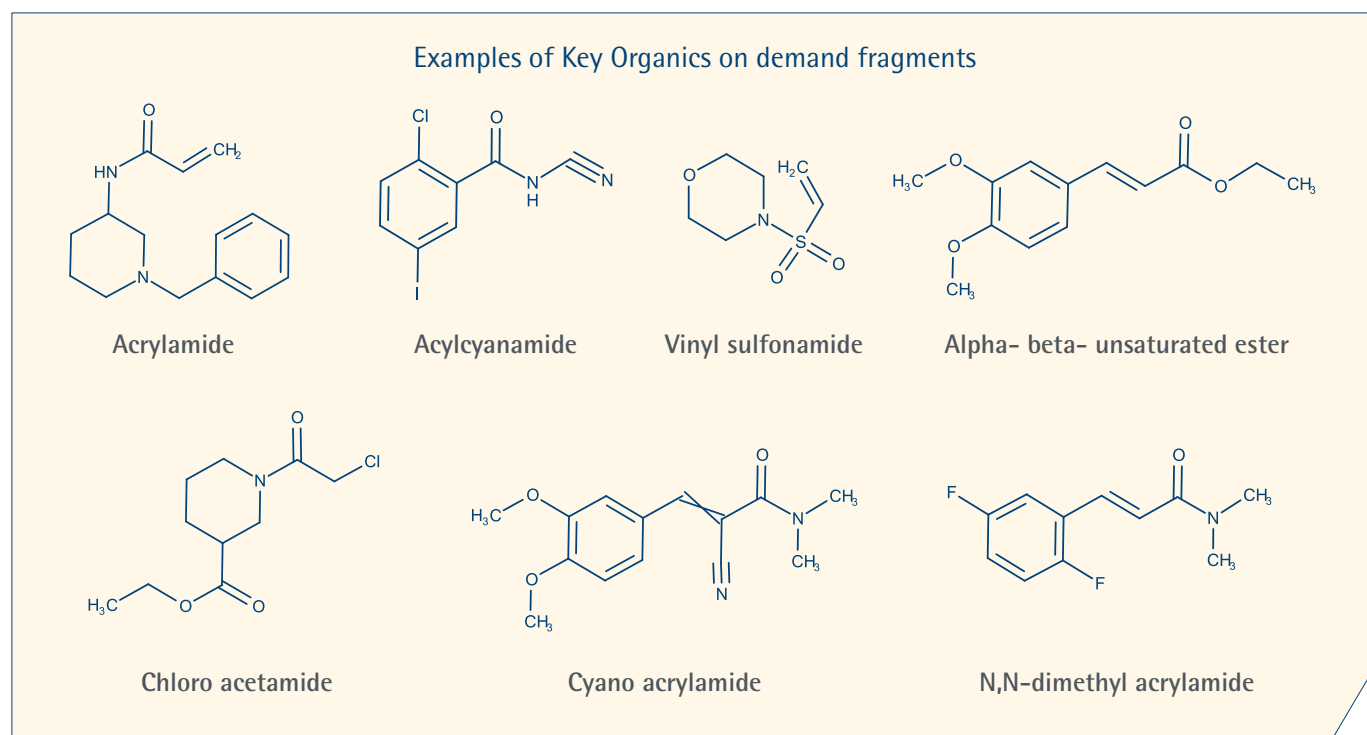
Screening fragments has its challenges, principally, the requirement for sensitive biophysical assays due to the low affinity of typical fragment hits. Fragments that can form a covalent bond with their target protein can overcome this challenge due to the increased affinity between the fragment and the target.

## Synthesis of Covalent Fragments on demand available from Key Organics

Key Organics has enumerated libraries of Covalent Fragments to compliment our off-the-shelf libraries. We have designed the following:

- Acrylamides - 1518 compounds
- Acylcyanamides - 1273 compounds
- Alpha- beta- unsaturated esters - 566 compounds
- Chloro acetamides - 1365 compounds
- Cyano acrylamides (alpha- beta- unsaturated cyanamide) - 621 compounds
- N,N-dimethyl acrylamides (alpha- beta- unsaturated amide) - 617 compounds
- Vinyl sulfonamides - 1632 compounds

Other designs with different parameters and warheads can be provided on request.



Key Organics on demand Covalent Fragments are available in various numbers, scale and formats, please get in touch to discuss your needs.

For more information please contact us at:

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