

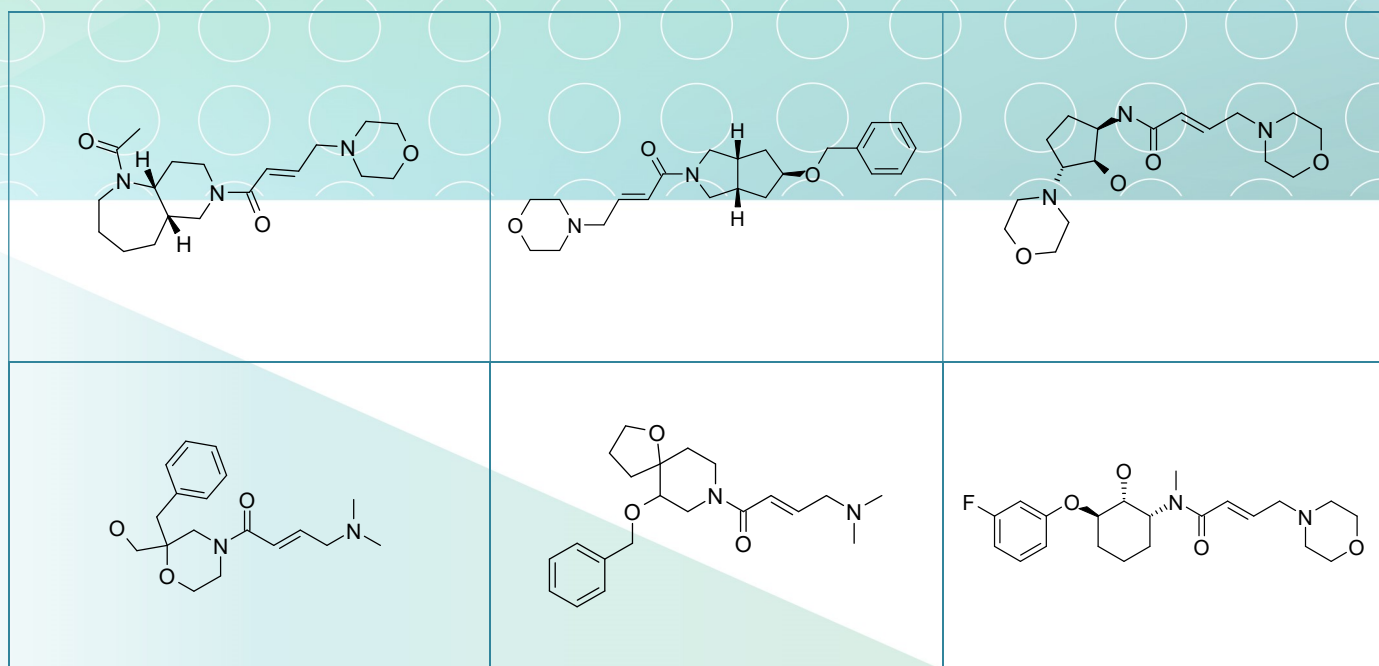
## SL-19. Soft Electrophiles-1 Covalent Inhibitors

In screening library creation, reactive molecules have been disregarded due to selectivity and safety concerns. However, many successful drugs act as covalent inhibitors based on a specific reactive group or moiety [1]. Covalent drugs typically have higher affinity and specific kinetics which allow dose reduction with minimal side effects.

Covalent inhibitors often possess an electrophilic “warhead” which interacts with a nucleophilic residue at the

binding site under certain physiological conditions; examples of such electrophilic groups include acrylamides, epoxides, nitriles, and electron-deficient ketones.

At ASINEX, we have created a library of acrylamide derivatives by combining proprietary glycomimetic or peptidomimetic fragments with selected amino acrylic acids known as “soft” electrophiles that bind to Cys residues.



### Signature Library 19

Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 $\mu$ mol; 1 $\mu$ mol DMSO solutions	SL#19_Soft Electrophiles-1_05-16.sdf

#### References:

1. *Drug Discov Today*. 2015 Sep;20(9):1061-73. doi: 10.1016/j.drudis.2015.05.005

#### Contact us:

USA: +1 336 721 1617  
Japan: +81-80-3401-9097  
Europe/Global:

[mparisi@asinex.com](mailto:mparisi@asinex.com)  
[sota@asinex.com](mailto:sota@asinex.com)  
[lsadovenko@asinex.com](mailto:lsadovenko@asinex.com)