SL-57. Carbocyclic Glycomimetics-1

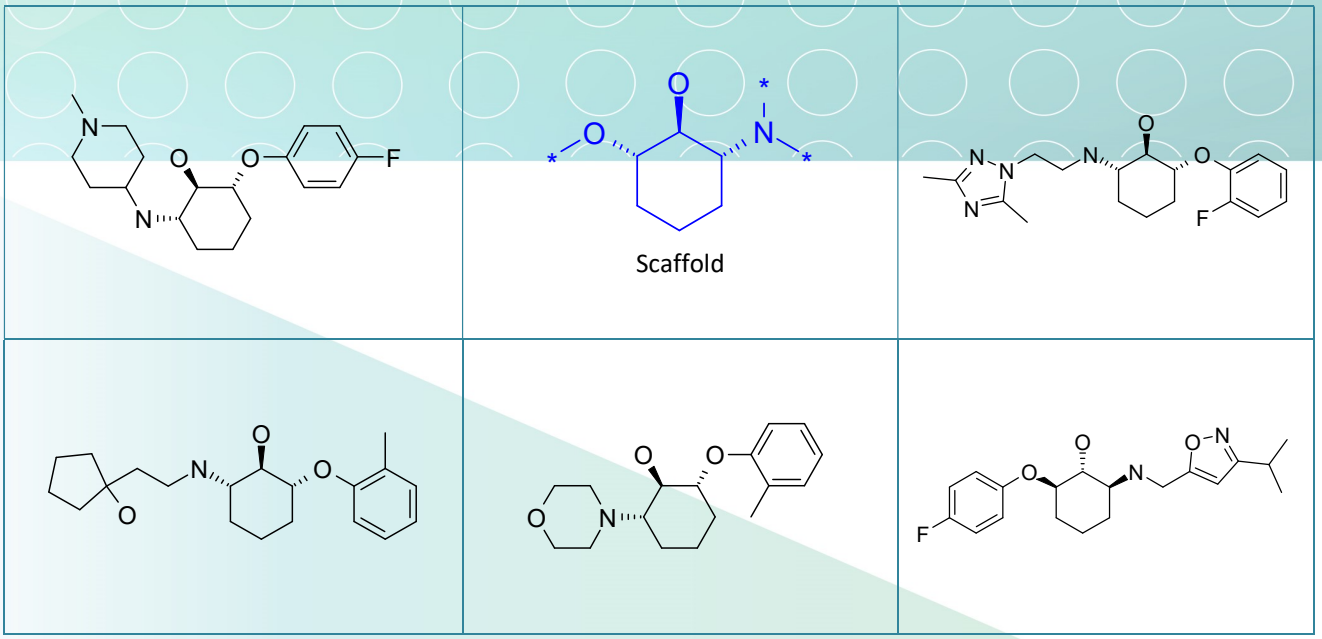
ASINEX
Signature Libraries

Carbohydrates are fundamental components of every cell surface, where they are involved in vital cellular recognition processes. The understanding of carbohydrate–protein interactions has facilitated the development of a new class of small-molecule drugs, known as glycomimetics [1].

Synthetic glycomimetic scaffolds such as aminocyclitols are interesting chemical probes for interrogating various carbohydrate-specific targets (e.g. glycosidases) [2].

At ASINEX, we have developed an efficient synthetic strategy to create five and six-membered carbocylic glycomimetic scaffolds with strategically orientated peripheral substituents around the scaffold core.

The resulting library increases the diversity of glycomimetic compounds which is very important as these compounds represent a relatively underexploited class of molecules in drug discovery.



Signature Library 57

Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 µmol; 1 µmol DMSO solutions	SL#57_CarboGlycomimetics-1.sdf

References:

1. *Nature Reviews Drug Discovery* 8, 661-677; doi:10.1038/nrd2852.
2. *Beilstein Journal of Organic Chemistry* 2005, 1:12 doi:10.1186/1860-5397-1-12

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