SL-56. Arabinose-derived Glycomimetics-2

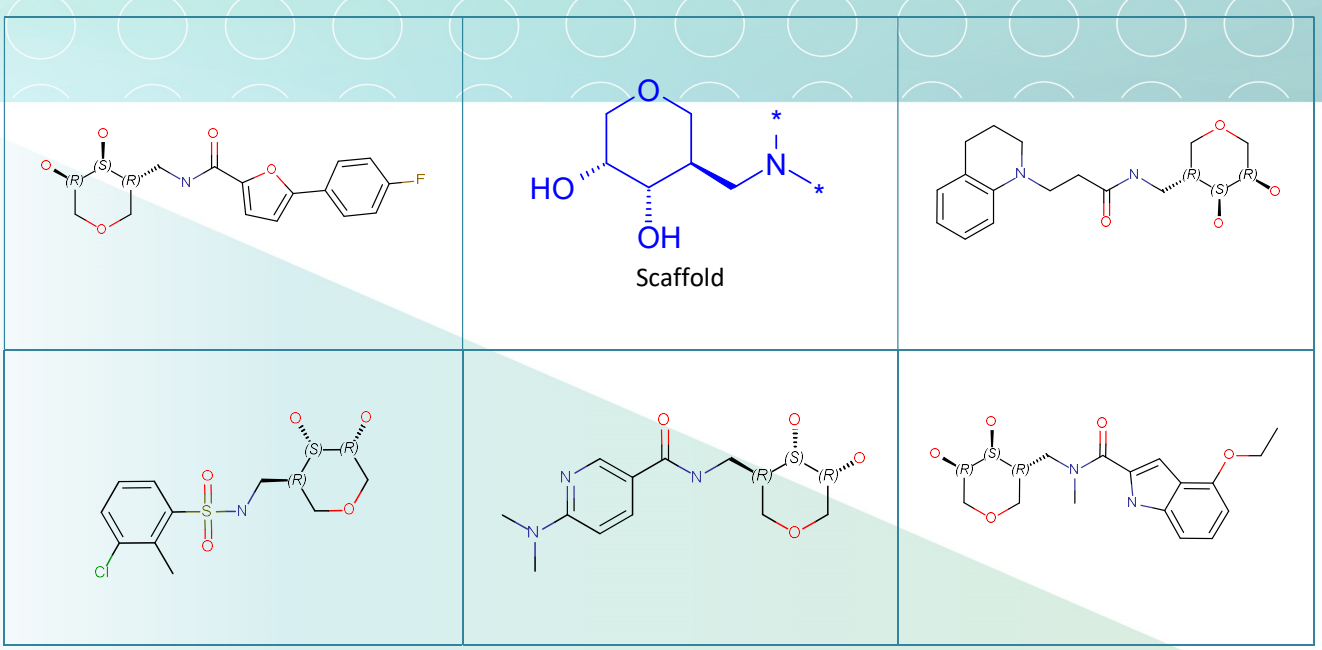
ASINEX
Signature Libraries

Glycomimetic molecules contain very important protein recognition pharmacophores as confirmed by multiple co-crystal structures published in literature. Analysis of the co-crystal data in the Protein Data Bank has revealed 40 approved glycomimetic ligands with 283 distinct mechanisms of action across 50 different categories including the following: antineoplastic agents, antivirals, antibacterials, antifungals, cardiotonics, essential vitamins, and micronutrients.

L-Arabinose and D-arabinose are versatile carbohydrate building blocks which can be transformed to various glycomimetic scaffolds using stereo-controlled reactions [1].

Leveraging our extensive experience in carbohydrate chemistry, we have created a library of glycomimetic derivatives based on D-(-)-Arabinose. The presence of amine in the resulting scaffold allows a broad variation of substituents while retaining the stereochemical configuration of the cyclic amino polyol scaffold.

Compounds from this library are useful for carbohydrate related research and drug discovery.



Signature Library 56

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#56_Arabinose Glycomimetics-2.sdf

References:

1. *SYNTHESIS 2010, No. 19, pp 3248–3258;* doi: 10.1055/s-0030-1258190

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