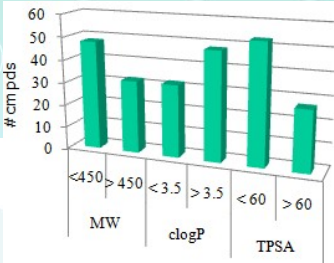
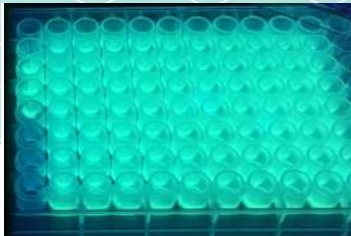
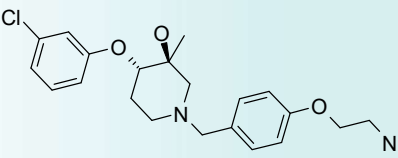
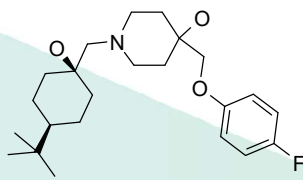
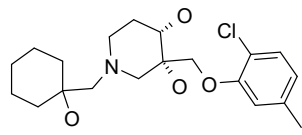


SL-13. Gram negative Antibacterials

Drug resistance has created a need for new antibiotic discovery, development, and approval. This is especially true of Gram-negative bacterial pathogens as the problem has escalated over the past few years [1].

Unfortunately, targeted screening in the antibacterial field has resulted in disappointingly poor deliverables. To address this issue, whole-cell screening strategies have been developed to identify new promising candidates.

At ASINEX, we have created a library of small molecule compounds based on an "iminosugar" scaffold. The selected molecules occupy a very specific physicochemical space of known Gram negative antibiotics [2]. We have also screened this library against 4 selected bacterial pathogens. Several active compounds inhibited >50% of bacterial growth at a given concentration.

 <p>physical & chemical properties</p>	 <p>in vitro screening</p>	<p><i>S. aureus</i> <i>E. coli</i> <i>P. aeruginosa</i> <i>A. baumannii</i></p>
		

Signature Library 13

Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 μ mol; 1 μ mol DMSO solutions	SL#13_ANTIBAC_05-16.sdf

References:

1. *Nature* 529, 336–343 (21 January 2016) doi:10.1038/nature17042
2. *J Med Chem.* 2008 May 22;51(10):2871-8. doi: 10.1021/jm700967e

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