SL-08. Glycomimetic Macrocycles

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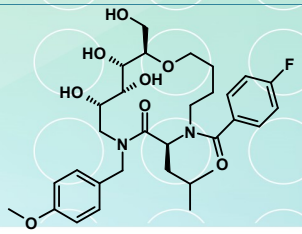
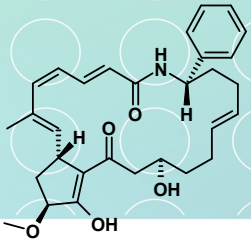
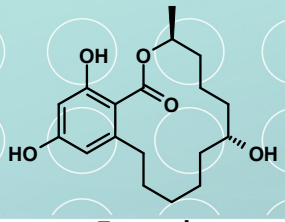
Carbohydrates are the most abundant natural products. They participate in metabolism and serve as structural building blocks. Carbohydrates are fundamental constituents of every cell surface, where they are involved in vital cellular recognition processes. Glycomimetics are designed to mimic the structure of natural carbohydrates and modulate their disease-related functions.
Glycomimetic Macrocycles are an extremely interesting class of glycomimetics that occupy space between small and macro molecules. Glycomimetic Macrocycles are mostly represented by naturally occurring molecules derived from marine microorganisms and bacterial or fungal metabolites. Synthetic glycomimetic macrocyles demonstrate antiangiogenesis activity with potential for anti-cancer therapy [1,2]



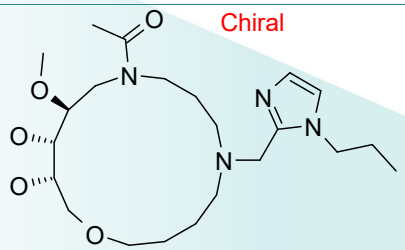
inhibitor of angiogenesis

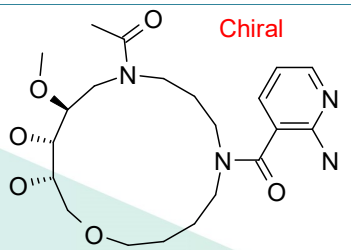


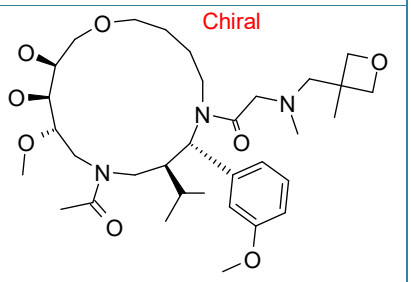
Hitachimycin
antitumor antibiotic



Zeranol
non-steroidal estrogen agonist







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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#8_Glycomacrocycles-1_04-16.sdf

References:
1. *Nat Rev Drug Discov*. 2009 Aug;8(8):661-77. doi: 10.1038/nrd2852.
2. *Org Lett*. 2013 Feb 1;15(3):432-5. doi: 10.1021/ol3032297.

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