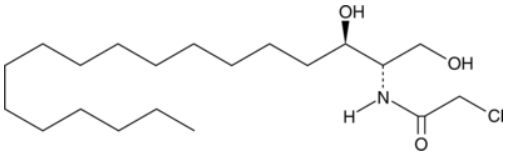
Product Data Sheet

Product Name: SACLAC
Cat. No.: GC49632

Chemical Properties

Cas. No.	2248703-42-4		
SMILES	ClCC(N[C@@H](CO)[C@@H](CCCCCCCCCCCCCCC)O)=O		
Formula	C20H40ClNO3	M.Wt	378
Solubility	Chloroform: soluble	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

SACLAC is an irreversible inhibitor of acid ceramidase (K_i = 97.1 nM) and a derivative of the acid ceramidase inhibitor SABRAC .[1] It decreases levels of sphingosine-1-phosphate (S1P) and increases total ceramide levels in OCI-AML-2 acute myeloid leukemia (AML) cells when used at a concentration of 2.5 µM.[2] SACLAC (10 and 20 µM) induces apoptosis in primary AML cells. It reduces leukemic burden in MV4-11 and U937 AML mouse xenograft models when administered at a dose of 5 mg/kg.

1.OrdÓÑez, Y.F., Abad, J.L., Aseeri, M., et al.Activity-based imaging of acid ceramidase in living cellsJ. Am. Chem. Soc.141(19)7736-7742(2019) 2.Pearson, J.M., Tan, S.-F., Sharma, A., et al.Ceramide analogue SACLAC modulates sphingolipid levels and MCL-1 splicing to induce apoptosis in acute myeloid leukemiaMol. Cancer Res.18(3)352-363(2020)

Caution: Product has not been fully validated for medical applications. For research use only.
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