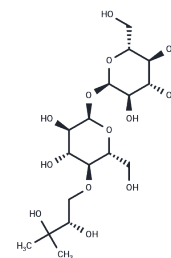


Lentztrehalose A

Chemical Properties

CAS No. :	1609356-99-1
Formula:	C ₁₇ H ₃₂ O ₁₃
Molecular Weight:	444.43
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Lentztrehalose A, a disaccharide microbial metabolite identified in Lentzea, exhibits a range of biological activities. This compound specifically inhibits <i>M. smegmatis</i> trehalase—an enzyme involved in trehalose metabolism—more effectively than trehalase from porcine kidney, with IC ₅₀ values of 0.67 mM and >20 mM, respectively. Additionally, Lentztrehalose A at a concentration of 100 mM promotes autophagy in MeWo melanoma and OVK18 ovarian cancer cells. When administered at 50 mg/kg daily, it enhances survival rates and impedes tumor growth in a Sarcoma 180 murine sarcoma model.
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2501 mL	11.2504 mL	22.5007 mL
5 mM	0.450 mL	2.2501 mL	4.5001 mL
10 mM	0.225 mL	1.125 mL	2.2501 mL
50 mM	0.045 mL	0.225 mL	0.450 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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