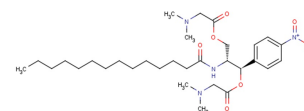


LCL521

Chemical Properties

CAS No.:	1226851-11-1
Formula:	C ₃₁ H ₅₂ N ₄ O ₇
Molecular Weight:	592.77
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	LCL521 also inhibits the lysosomal acid sphingomyelinase (ASMase). LCL521 is an acid ceramidase (ACDase) inhibitor.
Targets(IC ₅₀)	ACDase, ASMase: None
In vitro	LCL521 (10 µM) causes a time-dependent (1 hours and 5 hours) decrease of the α-ACDase form in MCF7 cells. LCL521 (1 µM) acts as a potent inhibitor of cellular ACDase activity, whereas 10 µM LCL521 has an additional, decreased affect on the α-form of this enzyme.

Solubility Information

Solubility	DMSO: 165 mg/mL (278.35 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.687 mL	8.435 mL	16.87 mL
5 mM	0.337 mL	1.687 mL	3.374 mL
10 mM	0.169 mL	0.843 mL	1.687 mL
50 mM	0.034 mL	0.169 mL	0.337 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Bai A, et al. Targeting (cellular) lysosomal acid ceramidase by B13: design, synthesis and evaluation of novel DMG-B13 ester prodrugs. Bioorg Med Chem. 2014 Dec 15;22(24):6933-44.

Inhibitors · Natural Compounds · Compound Libraries

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