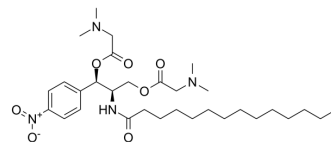


LCL521

Cat. No.:	HY-103593		
CAS No.:	1226851-11-1		
Molecular Formula:	C ₃₁ H ₅₂ N ₄ O ₇		
Molecular Weight:	592.77		
Target:	Phospholipase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.75 mg/mL (4.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.75 mg/mL (4.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.75 mg/mL (4.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LCL521 is an acid ceramidase (ACDase) inhibitor. LCL521 also inhibits the lysosomal acid sphingomyelinase (ASMase)^[1].

IC₅₀ & Target

ACDase, ASMase^[1]

In Vitro

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. LCL521 (10 μM) causes a time-dependent (1 hours and 5 hours) decrease of the α-ACDase form in MCF7 cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Immunol. 2023 May;24(5):802-813.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

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