

NCT-501

Chemical Properties

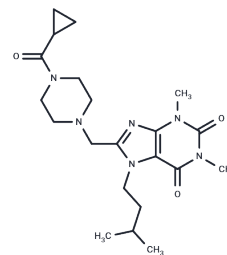
CAS No. : 1802088-50-1

Formula: C₂₁H₃₂N₆O₃

Molecular Weight: 416.52

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	NCT-501 is a potent and selective inhibitor of Aldehyde Dehydrogenase 1A1 (ALDH1A1) with an IC ₅₀ of 40 nM.
Targets(IC ₅₀)	Dehydrogenase
In vitro	In Caco-2 cell line, NCT-501 exhibits excellent permeability. [1]
In vivo	In CD1 Mice, NCT-501 is well absorbed and distributed but rapidly metabolized and/or excreted. [1]

Solubility Information

Solubility	DMSO: 1.04 mg/mL (2.5 mM), Sonication is recommended. Ethanol: 100 mg/mL (240.08 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4008 mL	12.0042 mL	24.0085 mL
5 mM	0.4802 mL	2.4008 mL	4.8017 mL
10 mM	0.2401 mL	1.2004 mL	2.4008 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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.

Reference

Yang SM, et al. J Med Chem. 2015, 58(15), 5967-5978.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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