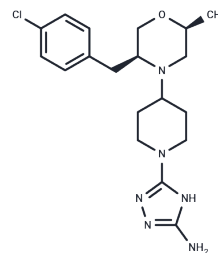


OATD-01

Chemical Properties

CAS No. :	2088453-21-6
Formula:	C ₁₉ H ₂₇ ClN ₆ O
Molecular Weight:	390.91
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	OATD-01 is a highly active inhibitor of both Chitotriosidase (CHIT1) and acidic mammalian chitinase (AMCase).
Targets(IC50)	Others
In vitro	The Ki values for hCHIT1, mCHIT1, hAMCase and mAMCase are 17.3 nM, 26.05 nM, 4.8 nM and 5.7 nM, respectively[1]. These Ki values reveals good correlation with earlier established IC50 data, which are 23 nM, 28 nM, 9 nM and 7.8 nM, respectively[1]. OATD-01 shows excellent PK profile in multiple species and is selective against a panel of other off-targets[1].
In vivo	OATD-01 given orally once daily in a range of doses between 30 and 100 mg/kg showed significant antifibrotic efficacy in an animal model of bleomycin-induced pulmonary fibrosis[1].

Solubility Information

Solubility	DMSO: 85 mg/ml (217.44 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5581 mL	12.7907 mL	25.5813 mL
5 mM	0.5116 mL	2.5581 mL	5.1163 mL
10 mM	0.2558 mL	1.2791 mL	2.5581 mL
50 mM	0.0512 mL	0.2558 mL	0.5116 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.

Reference

Robert Koralewski, et al. Discovery of OATD-01, a First-in-Class Chitinase Inhibitor as Potential New Therapeutics for Idiopathic Pulmonary Fibrosis. J Med Chem. 2020 Dec 24;63(24):15527-15540.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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