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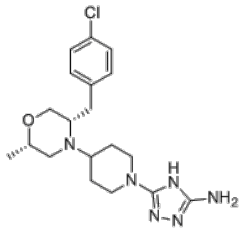
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	OATD-01
Cat. No.	:	PC-38628
CAS No.	:	2088453-21-6
Molecular Formula	:	$C_{19}H_{27}ClN_6O$
Molecular Weight	:	390.916
Target	:	Chitinase
Solubility	:	10 mM in DMSO



Biological Activity

OATD-01 (GLPG4716) is a highly potent, orally active chitotriosidase (**CHIT1**) inhibitor with IC50 of 26 (hCHIT1) and 29 nM (mCHIT1), inhibits hAMCase and mAMCase with IC50 of 9.0 and 7.8 nM, respectively.
OATD-01 poseeses binding affinity values for hCHIT1 (Ki=17.3 nM), mCHIT1 (Ki=26.05 nM), hAMCase (Ki= 4.8 nM), mAMCase (Ki=5.7 nM), and displays no inhibition against a panel of 98 targets in in vitro binding and enzymatic assays.
OATD-01 (30 and 100 mg/kg, p.o. q.d.) showed significant antifibrotic efficacy in an animal model of bleomycin-induced pulmonary fibrosis (IPF), decreased expression of profibrotic factors in lung tissues and reduced fibrosis and soluble collagen concentration.

References

Koralewski R, et al. ***J Med Chem.*** 2020 Dec 24;63(24):15527-15540.

Sklepkiewicz P, et al. ***Eur J Pharmacol.*** 2022 Mar 15;919:174792.

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