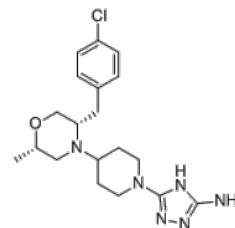


Product Name : OATD-01
Cat. No. : PC-38628
CAS No. : 2088453-21-6
Molecular Formula : C₁₉H₂₇ClN₆O
Molecular Weight : 390.916
Target : Chitinase
Solubility : 10 mM in DMSO



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 possesses binding affinity values for hCHIT1 (K_i=17.3 nM), mCHIT1 (K_i=26.05 nM), hAMCase (K_i= 4.8 nM), mAMCase (K_i=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.

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

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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