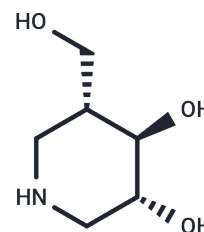


Afeostat

Chemical Properties

CAS No. :	169105-89-9
Formula:	C ₆ H ₁₃ NO ₃
Molecular Weight:	147.17
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Afeostat is a pharmacological chaperone that specifically and reversibly binds acid-β-glucosidase (GCase) in the endoplasmic reticulum with high affinity.
Targets(IC50)	Others, Glucosidase, glycosidase
In vivo	Afeostat enhances GCase activity in the brain, liver, and spleen. When administered orally at 100 mg/kg for four months to Thy1-aSyn mice, it not only improves motor and nonmotor functions but also eliminates the microglial inflammatory response in the substantia nigra. Additionally, it decreases α-synuclein immunoreactivity within nigral dopaminergic neurons and alters α-synuclein aggregation, reducing small aggregates while increasing large ones.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7949 mL	33.9743 mL	67.9486 mL
5 mM	1.359 mL	6.7949 mL	13.5897 mL
10 mM	0.6795 mL	3.3974 mL	6.7949 mL
50 mM	0.1359 mL	0.6795 mL	1.359 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

Richter F, et al. A GCase chaperone improves motor function in a mouse model of synucleinopathy. *Neurotherapeutics*. 2014 Oct;11(4):840-56.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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