
Product Data Sheet

Product Name: Afegostat (D-Isosagomine)

Cat. No.: GC33728

Chemical Properties

Cas. No. 169105-89-9

SMILES O[C@@H]1CNC[C@H](CO)[C@H]1O

Formula $C_6H_{13}NO_3$

M.Wt 147.17

Solubility H_2O : 5 mg/mL (33.97 mM; Need ultrasonic)

Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Afegostat is a pharmacological chaperone, which specifically and reversibly binds acid- β -glucosidase (GCase) in the endoplasmic reticulum (ER) with high affinity[1].

Afegostat (AT2101) increases GCase activity in brain, liver, and spleen. Afegostat (100 mg/kg) administrates orally for 4 months to Thy1-aSyn mice improved motor and nonmotor function, abolishes microglial inflammatory response in the substantia nigra, reduces α -synuclein immunoreactivity in nigral dopaminergic neurons, and reduces the number of small α -synuclein aggregates, while increasing the number of large α -synuclein aggregates[1].

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA