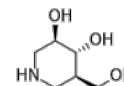


Product Name : Isofagomine
Cat. No. : PC-27596
CAS No. : 169105-89-9
Molecular Formula : C₆H₁₃NO₃
Molecular Weight : 147.17
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Isofagomine (Afeostat) is a broad spectrum inhibitor of **glycosidases**, inhibits beta-glucosidase, glucoamylase, isomaltase, and alpha-glucosidase, specifically and reversibly binds lysosomal hydrolase acid β -glucosidase (**GCase**) in the ER with high affinity.

Isofagomine (Afeostat) stabilizes the active form of GCase in the ER and increases trafficking of GCase to lysosomes. Isofagomine (Afeostat) improved motor and nonmotor function, abolished microglial inflammatory response in the substantia nigra, reduced α -synuclein immunoreactivity in nigral dopaminergic neurons, and reduced the number of small α -synuclein aggregates, while increasing the number of large α -synuclein aggregates.

References

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Waagepetersen HS, et al. *Neurochem Int*. 2000 Apr;36(4-5):435-40.
Richter F, et al. *Neurotherapeutics*. 2014 Oct;11(4):840-56.

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

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