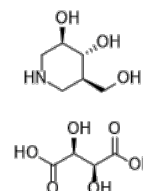


Product Name : Afegostat tartrate
Cat. No. : PC-27597
CAS No. : 957230-65-8
Molecular Formula : C₁₀H₁₉NO₉
Molecular Weight : 297.26
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Afegostat tartrate (Isofagomine D-Tartrate, AT2101) 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 (Afegostat) stabilizes the active form of GCase in the ER and increases trafficking of GCase to lysosomes.

Isofagomine (Afegostat) 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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