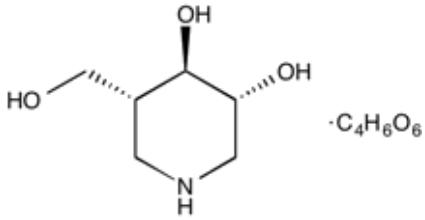
Catalog # 10-2859

Isofagomine D-tartrate

CAS# 957230-65-8

(3R,4R,5R)-5-Hydroxymethyl-3,5-piperidinediol tratrate

Lot # X106478



A competitive inhibitor of human lysosomal β-glucosidase, IC_{50} = 0.06 μM.[1] Increases the activity of N370S mutant acid β-glucosidase (GlcCerase) in Gaucher fibroblasts.[2] Displays a direct pharmacological chaperone effect greatly increasing the amount of newly synthesized GlcCerase that traffics out of the ER.[2]

1) Kuriyama *et al*. (2008), *In vitro inhibition of glycogen-degrading enzymes and glycosidases by six-membered sugar mimics and their evaluation in cell culture*; Bioorg. Med. Chem., **16** 7330
2) Steet *et al*. (2006), *The iminosugar isofagomine increases the activity of N370S mutant acid beta-glucosidase in Gaucher fibroblasts by several mechanisms*; Proc. Natl. Acad. Sci. USA, **103** 13813

PHYSICAL DATA

Molecular Weight:	297.26
Molecular Formula:	$C_6H_{13}NO_3 \bullet C_4H_6O_6$
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 2 mg/ml)
Physical Description:	Lyophilized beige solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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