

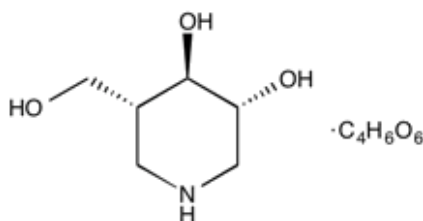
Catalog # 10-2859

Isomagomine tartrate

CAS# 957230-65-8

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

Lot # X106478



A competitive inhibitor of human lysosomal β -glucosidase, $IC_{50} = 0.06 \mu M$.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 isomagomine 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:	$C_6H_{13}NO_3 \cdot C_4H_6O_6$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 2 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied, desiccated at $-20^\circ C$ for up to 1 year from the date of purchase. Solutions in DMSO may be stored at $-20^\circ C$ for up to 1 month.

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