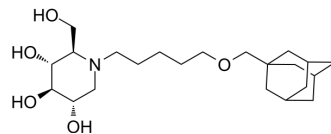


AMP-Deoxynojirimycin

Cat. No.:	HY-114615
CAS No.:	216758-20-2
Molecular Formula:	C ₂₂ H ₃₉ NO ₅
Molecular Weight:	397.55
Target:	Glucosidase; Glucosylceramide Synthase (GCS)
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AMP-Deoxynojirimycin (AMP-DNM) is a potent ceramide glucosyltransferase and GCase 2 inhibitor. AMP-Deoxynojirimycin also is a GlcCer biosynthesis inhibitor ^{[1][2]} .
In Vitro	AMP-Deoxynojirimycin (10 μM) significantly blocks the leucine and C17ISO-induced P70S6K phosphorylation in 3T3-L1 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zhu M, et al. Monomethyl branched-chain fatty acid mediates amino acid sensing upstream of mTORC1. *Dev Cell*. 2021 Oct 11;56(19):2692-2702.e5.
- [2]. Bae EJ, et al. Loss of glucocerebrosidase 1 activity causes lysosomal dysfunction and α-synuclein aggregation. *Exp Mol Med*. 2015 Mar 27;47(3):e153.

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

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