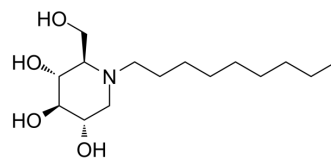


N-Nonyldeoxynojirimycin

Cat. No.:	HY-107532
CAS No.:	81117-35-3
Molecular Formula:	C ₁₅ H ₃₁ NO ₄
Molecular Weight:	289.41
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (172.77 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.4553 mL	17.2765 mL	34.5531 mL
5 mM	0.6911 mL	3.4553 mL	6.9106 mL
10 mM	0.3455 mL	1.7277 mL	3.4553 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

N-Nonyldeoxynojirimycin (NN-DNJ) is a potent inhibitor of alpha-glucosidase and alpha-1,6-glucosidase (IC₅₀s, 0.42, 8.4 μM, respectively), inhibits glycogen breakdown^[1].

IC₅₀ & Target

IC₅₀: 0.42 μM (alpha-glucosidase), 8.4 μM (alpha-1,6-glucosidase)^[1]

REFERENCES

[1]. Andersson U, et al. Inhibition of glycogen breakdown by imino sugars in vitro and in vivo. *Biochem Pharmacol.* 2004 Feb 15;67(4):697-705.

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

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