
Product Data Sheet

Product Name: N-Nonyldeoxynojirimycin

Cat. No.: GC14155

Chemical Properties

Cas. No. 81117-35-3

Chemical Name (2R,3R,4R,5S)-2-(hydroxymethyl)-1-nonylpiperidine-3,4,5-triol

SMILES O[C@@H]([C@@H]1O)[C@@H](CO)N(CCCCCCCC)C[C@@H]1OFormula $C_{15}H_{31}NO_4$ M.Wt 289.41

Solubility <28.94mg/ml in DMSO; <28.94mg/ml in ethanol Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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].

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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