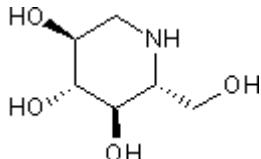


Certificate of Analysiswww.tocris.com**Product Name:** 1-Deoxynojirimycin**Catalog No.:** 1258**Batch No.:** 4**CAS Number:** 19130-96-2**IUPAC Name:** (2R,3R,4R,5S)-2-(Hydroxymethyl)-3,4,5-piperidinetriol**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₆H₁₃NO₄**Batch Molecular Weight:** 163.17**Physical Appearance:** White solid**Solubility:** water to 100 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Optical Rotation:** [α]_D = +45 (Concentration = 1, Solvent = Water)**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 44.16 8.03 8.58

Found 44.19 8.01 8.5

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

www.tocris.com**Product Name:** 1-Deoxynojirimycin**Catalog No.:** 1258**Batch No.:** 4

CAS Number: 19130-96-2

IUPAC Name: (2R,3R,4R,5S)-2-(Hydroxymethyl)-3,4,5-piperidinetriol

Description:Inhibitor of glucosidase I ($K_i = 2.1$ mM) and II ($K_i = 7$ mM).**Storage:** Store at +4°C**Solubility & Usage Info:**

water to 100 mM

Stability and Solubility Advice:

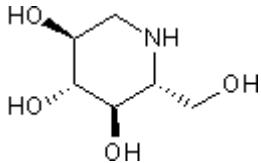
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.**Physical and Chemical Properties:**Batch Molecular Formula: C₆H₁₃NO₄

Batch Molecular Weight: 163.17

Physical Appearance: White solid

Batch Molecular Structure:**References:****Fuhrmann et al** (1985) Inhibitors of oligosaccharide processing. *Biochim.Biophys.Acta* **825** 95. PMID: 3159432.**Bause et al** (1989) Purification and characterization of trimming glucosidase I from pig liver. *Eur.J.Biochem.* **183** 661. PMID: 2673780.**Hentges and Bause** (1997) Affinity purification and characterization of glucosidase II from pig liver. *Biol.Chem.* **378** 1031. PMID: 9348113.

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