



Certificate of Analysis

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Product Name: 1-Deoxymannojirimycin hydrochloride Catalog No.: 1259 Batch No.: 8

CAS Number: 73465-43-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_{13}NO_4.HCI$

Batch Molecular Weight: 199.63
Physical Appearance: White solid
Solubility: water to 50 mM
Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

1H NMR:Consistent with structureMass Spectrum:Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 36.1 7.07 7.02 Found 35.86 7.04 6.94



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Product Information

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Description:

Selective inhibitor of α-mannosidase I.

Physical and Chemical Properties:

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Batch Molecular Weight: 199.63 Physical Appearance: White solid

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 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

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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.

References:

Bischoff and Kornfeld (1984) The effect of 1-deoxymannojirimycin on rat liver α-mannosidases. Biochem.Biophys.Res.Commun. 125 324. PMID: 6239623.

Fuhrmann et al (1984) Novel mannosidase inhibitor blocking conversion of high mannose to complex oligosaccharides. Nature 307 755. PMID: 6230538.

Bischoff et al (1986) The use of 1-deoxymannojirimycin to evaluate the role of various α-mannosidases in oligosaccharide processing in intact cells. J.Biol.Chem. 261 4766. PMID: 2937779.

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