

Product Name: 5-InoAz

Catalog No.: 7973

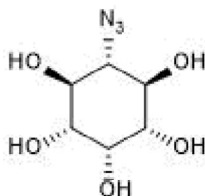
Batch No.: 1

CAS Number: 1218932-97-8

IUPAC Name: 5-Azido-5-deoxy-*myo*-inositol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₆ H ₁₁ N ₃ O ₅
Batch Molecular Weight:	205.17
Physical Appearance:	White solid
Solubility:	water to 100 mM DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.3% purity
¹ H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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IUPAC Name: 5-Azido-5-deoxy-*myo*-inositol

Description:

5-InoAz is a metabolic probe for labeling the mycobacterium cell envelope. Specifically designed as an inositol analog to incorporate into cell envelope glycolipids (phosphatidylinositol mannoside (PIM), PIM-anchored lipomannan (LM) and lipoarabinomannan (LAM)). In combination with bioorthogonal chemistry, it provides a valuable tool for investigating PIM, LM, and LAM biosynthesis, transport, and dynamics in diverse mycobacterial organisms.

Physical and Chemical Properties:

Batch Molecular Formula: C₆H₁₁N₃O₅

Batch Molecular Weight: 205.17

Physical Appearance: White solid

Minimum Purity: ≥90%

Batch Molecular Structure:



References:

Hodges et al (2023) Azido inositol probes enable metabolic labeling of inositol-containing glycans and reveal an inositol importer in mycobacteria. *ACS Chem.Biol.* **18** 595. PMID: 36856664.

Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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