

Certificate of Analysis

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Product Name: DSRM-3716

Catalog No.: 7414

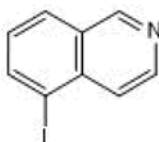
Batch No.: 2

CAS Number: 58142-99-7

IUPAC Name: 5-Iodoisoquinoline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₆IN
Batch Molecular Weight: 255.06
Physical Appearance: Brown solid
Solubility: ethanol to 100 mM
 DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.38	2.37	5.49
Found	42.41	2.28	5.61

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

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2

CAS Number: 58142-99-7

IUPAC Name: 5-Iodoisoquinoline

Description:

DSRM-3716 is a potent, reversible inhibitor of SARM1 NAD(+) hydrolase (IC₅₀ = 75 nM), which displays selectivity for SARM1 over related enzymes NAMPT and NMNAT and a panel of receptors and transporters. In vitro, DSRM-3716 decreases cyclic adenosine diphosphate ribose (cADPR) levels in mouse dorsal root ganglia (DRG) neurons, and protects mouse DRG and iPSC-derived human motor neurons against axonal degeneration. In axons with rotenone (Cat. No. 3616)-induced mitochondrial injury, DSRM-3716 rescues axons displaying indicators of degeneration.

Physical and Chemical Properties:

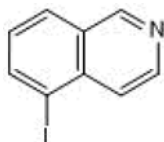
Batch Molecular Formula: C₉H₆IN

Batch Molecular Weight: 255.06

Physical Appearance: Brown solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

O Hughes et al (2021) Small molecules SARM1 inhibitors recapitulate the SARM1^{-/-} phenotype and allow recovery of a metastable pool of axons fated to degenerate. *Cell Rep.* **34**. PMID: 33406435.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol 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. 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.

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