

Product Data Sheet

Product Name: DSRM-3716

Cat. No.: GC62944

Chemical Properties

Cas. No. 58142-99-7

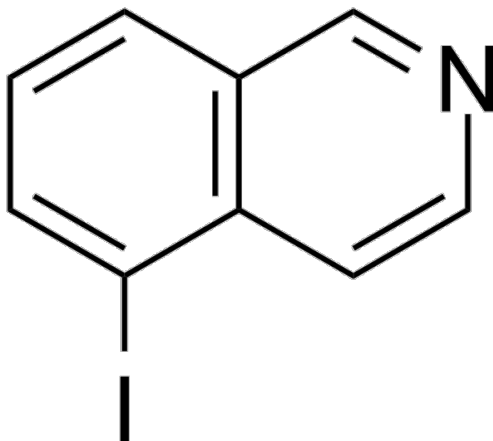
Formula C_9H_6IN M.Wt 255.06

Solubility DMSO : 50 mg/mL (196.03 mM; Need ultrasonic) Storage 4°C, protect from light

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

DSRM-3716 (5-Iodoisoquinoline) is a potent and selective SARM1 NADase inhibitor with an IC₅₀ of 75 nM. DSRM-3716 is selective against other NAD⁺-processing enzymes, receptors, and transporters. DSRM-3716 provides robust axon protection[1].

DSRM-3716 treatment produces dose-dependent inhibition of cADPR increase (IC₅₀ of 2.8 μM) and substantial preservation of NAD⁺ in these cultures in a manner consistent with engagement and inhibition of SARM1 enzymatic NADase activity inside the cells[1]. DSRM-3716 prevents

Caution: Product has not been fully validated for medical applications. For research use only.

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neurofilament light chain (NfL) release from severed axons in a dose-dependent manner, with an IC₅₀ of ~2 μ M[1]. The potency of DSRM-3716 to inhibit cADPR increase caused by axotomy (IC₅₀ of 2.8 μ M) is similar to the potency required to prevent axonal degeneration (IC₅₀ of 2.1 μ M)[1]. DSRM-3716 inhibits the SARM1-dependent cell destruction pathway triggered by Rotenone in sensory neurons[1].

[1]. Robert O Hughes, et al. Small Molecule SARM1 Inhibitors Recapitulate the SARM1 -/- Phenotype and Allow Recovery of a Metastable Pool of Axons Fated to Degenerate. Cell Rep. 2021 Jan 5;34(1):108588.

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