

## Product Data Sheet

Product Name: DSRM-3716

Cat. No.: GC62944

### Chemical Properties

Cas. No. 58142-99-7

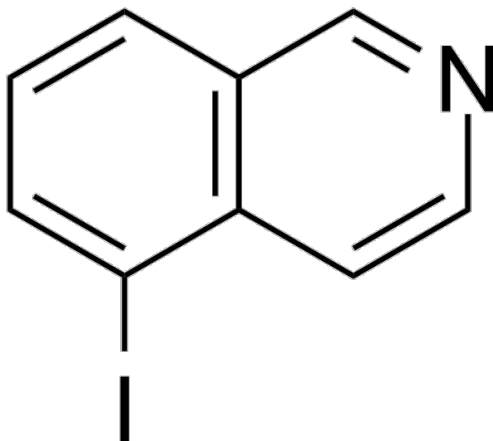
Formula  $C_9H_6IN$  M.Wt 255.06

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 IC<sub>50</sub> of 75 nM. DSRM-3716 is selective against other NAD<sup>+</sup>-processing enzymes, receptors, and transporters. DSRM-3716 provides robust axon protection[1].

DSRM-3716 treatment produces dose-dependent inhibition of cADPR increase (IC<sub>50</sub> of 2.8 μM) and substantial preservation of NAD<sup>+</sup> 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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

## Product Data Sheet

---

neurofilament light chain (NfL) release from severed axons in a dose-dependent manner, with an IC<sub>50</sub> of ~2  $\mu$ M[1]. The potency of DSRM-3716 to inhibit cADPR increase caused by axotomy (IC<sub>50</sub> of 2.8  $\mu$ M) is similar to the potency required to prevent axonal degeneration (IC<sub>50</sub> of 2.1  $\mu$ 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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: [tech@glpbio.com](mailto:tech@glpbio.com)

Address: 10292 Central Ave. #205, Montclair, CA, USA