

**Product Name** : DSRM-3716  
**Cat. No.** : PC-38164  
**CAS No.** : 58142-99-7  
**Molecular Formula** : C<sub>9</sub>H<sub>6</sub>IN  
**Molecular Weight** : 255.058  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

DSRM-3716 (DSRM3716, 5-iodoisoquinoline) is a potent and selective inhibitor of **NADase SARM1** with IC<sub>50</sub> of 75 nM. DSRM-3716 displays selectivity against various NAD metabolizing and pathway enzymes (e.g., NAMPT and NMNAT). DSRM-3716 recapitulates the SARM1<sup>-/-</sup> phenotype and protects axons from degeneration induced by axotomy or mitochondrial dysfunction. SARM1 inhibition post-mitochondrial injury with rotenone allows recovery and rescues axons that already entered the metastable state.

DSRM-3716 demonstrates the potential to treat axonopathies of the central and peripheral nervous systems by preventing axonal degeneration and by allowing functional recovery of a metastable pool of damaged, but viable, axons.

### References

Robert O. Hughes, et al. *Cell Rep.* 2021 Jan 5; 34(1): 108588.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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