Data Sheet (Cat.No.T213039)

TargetMol

SARM1-IN-7

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SARM1-IN-7 is a potent, orally active inhibitor of SARM1, targeting its active site (orthosteric). This compound persistently enhances SARM1's enzymatic activity, leading to exacerbated NAD depletion at suboptimal concentrations. In both cell and mouse models with activated SARM1, SARM1-IN-7 exhibits dual effects: high doses provide cell/neuron protection, whereas low doses intensify cell/neuron damage. SARM1-IN-7 is applicable in studies of axonal degeneration.
In vitro	EGFR-IN-172 (Compound NB-3) effectively inhibits SARM1 at high concentrations (0.06 nM-0.6 μM, 24 h), thereby preserving the viability of SH-SY5Y cells. However, at subinhibitory concentrations, it enhances SARM1-induced cell death in SH-SY5Y cells.
In vivo	SARM1-IN-7 (Compound NB-3), administered at doses ranging from 0.3 to 30 mg/kg (i.g., single or double dose), significantly reduces plasma NfL levels at high doses. However, low doses exacerbate neural damage, causing adverse effects such as lethargy, immobility, and even death in the Vacor-induced SARM1 activation mouse model. Similar outcomes were observed in both the low-dose Vacor model and the sciatic nerve transection (SNT) model.

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