

Data Sheet (Cat.No.TP1947)

P110

Chemical Properties

CAS No.:	TP1947
Formula:	C100H179N45O25
Molecular Weight:	2411.8
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Dynamin-related protein 1 (Drp1) inhibitor, inhibits Drp1 GTPase activity. Displays no effect on dynamin 1 or other mitochondrial dynamics-related proteins. Inhibits mitochondrial fission, dysfunction and reactive oxygen species (ROS) production in vitro. Reduces programmed cell death and improves cell viability by protecting mitochondrial integrity. Reduces mitochondrial fragmentation and mitochondrial ROS production in mouse model of Parkinson's disease. Cell permeable.
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Solubility Information

Solubility	water: 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.415 mL	2.073 mL	4.146 mL
5 mM	0.083 mL	0.415 mL	0.829 mL
10 mM	0.041 mL	0.207 mL	0.415 mL
50 mM	0.008 mL	0.041 mL	0.083 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Qi et al (2013) A novel Drp1 inhibitor diminishes aberrant mitochondrial fission and neurotoxicity. J.Cell Sci. 126 789 PMID:
2. Filichia et al (2016) Inhibition of Drp1 mitochondrial translocation provides neural protection in dopaminergic system in a Parkinson's disease model induced by MPTP. Sci.Rep. 13 32656 PMID:

Inhibitors · Natural Compounds · Compound Libraries

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