

P110 TFA

Chemical Properties

CAS No. :

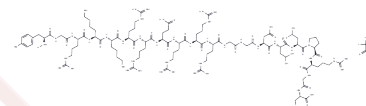
Formula: C102H180F3N45O27

Molecular Weight: 2525.8

Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	P110 TFA is a dynamin-related protein 1 (Drp1) inhibitor, inhibits Drp1 GTPase activity.
Targets(IC50)	Others
In vitro	P110 TFA 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.

Solubility Information

Solubility	DMSO: 50 mg/mL (19.8 mM), Sonication is recommended. H2O: 50 mg/mL (19.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3959 mL	1.9796 mL	3.9591 mL
5 mM	0.0792 mL	0.3959 mL	0.7918 mL
10 mM	0.0396 mL	0.198 mL	0.3959 mL
50 mM	0.0079 mL	0.0396 mL	0.0792 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Qi et al (2013) A novel Drp1 inhibitor diminishes aberrant mitochondrial fission and neurotoxicity. J.Cell Sci. 126 789 PMID:

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:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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