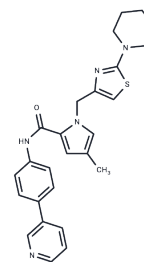


MB 0223

Chemical Properties

CAS No. : 2247732-89-2
 Formula: C₂₆H₂₇N₅O₅
 Molecular Weight: 457.59
 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	Dynamin-related GTPase DRP1 partial inhibitor (IC ₅₀ = 1.2 μM). Selective for DRP1 over other dynamin-related GTPases, OPA1 and DYN1. Increases mitochondrial DNA levels in mfn1- knockout MEFs deficient in mitochondrial fusion.
Targets(IC ₅₀)	Others,Dynamin

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.1854 mL	10.9268 mL	21.8536 mL
5 mM	0.4371 mL	2.1854 mL	4.3707 mL
10 mM	0.2185 mL	1.0927 mL	2.1854 mL
50 mM	0.0437 mL	0.2185 mL	0.4371 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

Mallat et al (2018) Discovery and characterization of selective small molecule inhibitors of the mammalian mitochondrial division dynamin, DRP1. Biochem.Biophys.Res.Commun. 499 556 PMID:29601815

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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