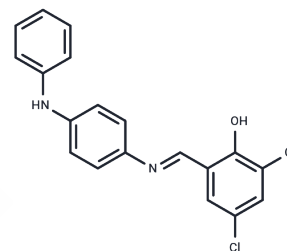


MitoBloCK-6

Chemical Properties

CAS No. :	303215-67-0
Formula:	C ₁₉ H ₁₄ Cl ₂ N ₂ O
Molecular Weight:	357.23
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	MitoBloCK-6 is a potent Erv1/ALR inhibitor with IC ₅₀ values of 900 nM and 700 nM, respectively, and also inhibits Erv2 with an IC ₅₀ of 1.4 μM. Additionally, MitoBloCK-6 can induce apoptosis via cytochrome c release in human embryonic stem cells (hESCs) [1].
Targets(IC ₅₀)	Apoptosis,Reductase

Solubility Information

Solubility	DMSO: 250 mg/mL (699.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (27.99 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (27.99 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7993 mL	13.9966 mL	27.9932 mL
5 mM	0.5599 mL	2.7993 mL	5.5986 mL
10 mM	0.2799 mL	1.3997 mL	2.7993 mL
50 mM	0.056 mL	0.2799 mL	0.5599 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

Dabir DV, et, al. A small molecule inhibitor of redox-regulated protein translocation into mitochondria. Dev Cell. 2013 Apr 15;25(1):81-92.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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