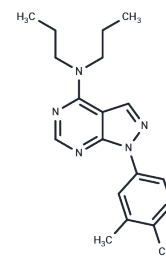


S3QEL-2

Chemical Properties

CAS No. :	890888-12-7
Formula:	C ₁₉ H ₂₅ N ₅
Molecular Weight:	323.44
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	S3QEL-2 is a selective complex III superoxide-producing site inhibitor with neuroprotective effects that inhibits PC-3 cell proliferation in pyruvate-starved medium in a dose-dependent manner.
Targets(IC50)	OXPPOS, Mitochondrial Metabolism
In vitro	S3QEL-2 is a potent and selective inhibitor of superoxide anion production by mitochondrial complex III, specifically targeting the IIIQo site (IC ₅₀ =1.7 μM). S3QEL-2 can prevent the JNK signaling pathway-mediated stress response in pancreatic islets induced by reactive oxygen species (ROS) and significantly reduce apoptosis caused by oxidative stress, thereby increasing the yield of functional β-cells from intact islets. [1]

Solubility Information

Solubility	DMSO: 17.14 mg/mL (52.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.71 mg/mL (5.29 mM), Suspension. <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	3.0918 mL	15.4588 mL	30.9176 mL
5 mM	0.6184 mL	3.0918 mL	6.1835 mL
10 mM	0.3092 mL	1.5459 mL	3.0918 mL
50 mM	0.0618 mL	0.3092 mL	0.6184 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

Orr AL, et al. Suppressors of superoxide production from mitochondrial complex III. Nat Chem Biol. 2015 Nov;11(11):834-6.

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