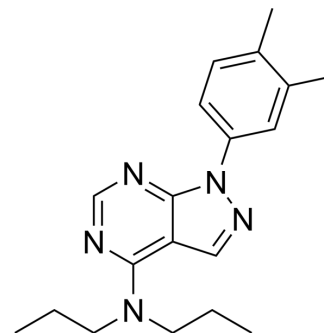


S3QEL-2

Cat. No.:	HY-110282		
CAS No.:	890888-12-7		
Molecular Formula:	C ₁₉ H ₂₅ N ₅		
Molecular Weight:	323.44		
Target:	Mitochondrial Metabolism; Oxidative Phosphorylation		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (154.59 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

S3QEL-2, a suppressor of superoxide production from mitochondrial complex III, potently and selectively suppresses site III_{Qo} superoxide production (IC₅₀=1.7 μM). S3QEL-2 does not affect oxidative phosphorylation, and normal electron flux. S3QEL-2 inhibits HIF-1α accumulation^[1].

In Vitro

S3QELs-2 protects against ROS-induced, JNK-mediated cell stress in pancreatic β-cells and S3QEL-2 strongly mitigates the oxidative stress-induced apoptosis that limits the yield of functional β-cells from intact islets^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Orr AL, et al. Suppressors of superoxide production from mitochondrial complex III. Nat Chem Biol. 2015;11(11):834-836.

Caution: Product has not been fully validated for medical applications. For research use only.

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