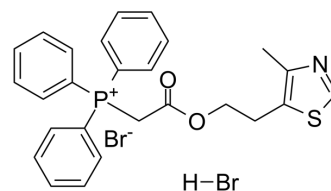


Mitochondrial respiration-IN-1 hydrobromide

Cat. No.:	HY-131453A
Molecular Formula:	C ₂₆ H ₂₆ Br ₂ NO ₂ PS
Molecular Weight:	607.34
Target:	Mitochondrial Metabolism
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (164.65 mM; Need ultrasonic)
DMSO : 66.67 mg/mL (109.77 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6465 mL	8.2326 mL	16.4652 mL
	5 mM	0.3293 mL	1.6465 mL	3.2930 mL
	10 mM	0.1647 mL	0.8233 mL	1.6465 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 11.11 mg/mL (18.29 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (8.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 5 mg/mL (8.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 5 mg/mL (8.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mitochondrial respiration-IN-1 hydrobromide (compound 49) is a potent mitochondrial inhibitor (IC₅₀=8.8 mg/mL) extracted from patent US20110301180A1, compound 49. Mitochondrial respiration-IN-1 hydrobromide significantly reduces mitochondrial respiration in platelets^[1].

REFERENCES

[1]. James P. Collman, et al. Reducing Platelet Activation, Aggregation and Platelet-Stimulated Thrombosis or Blood Coagulation by Reducing Mitochondrial Respiration. US20110301180A1.

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

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