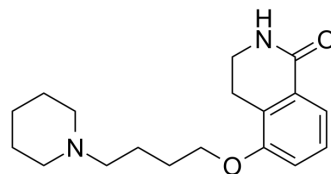


DPQ

Cat. No.:	HY-114869		
CAS No.:	129075-73-6		
Molecular Formula:	C ₁₈ H ₂₆ N ₂ O ₂		
Molecular Weight:	302.41		
Target:	PARP		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (330.68 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.3068 mL	16.5338 mL	33.0677 mL
5 mM	0.6614 mL	3.3068 mL	6.6135 mL
10 mM	0.3307 mL	1.6534 mL	3.3068 mL

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

BIOLOGICAL ACTIVITY

Description

DPQ is a potent PARP-1 inhibitor. DPQ can reduce the N-methyl-d-aspartate (NMDA)-induced PARP activation, restoring ATP to near control levels and significantly attenuating neuronal injury in the severe NMDA exposure model. DPQ can be used for researching neuroprotection^[1].

IC₅₀ & Target

PARP-1^[1]

REFERENCES

[1]. Meli E, et al. Differential role of poly(ADP-ribose) polymerase-1 in apoptotic and necrotic neuronal death induced by mild or intense NMDA exposure in vitro. Mol Cell Neurosci. 2004;25(1):172-180.

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

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