MCE RedChemExpress

Product Data Sheet

DPO-1

Cat. No.: HY-100712 CAS No.: 43077-30-1 Molecular Formula: $C_{22}H_{29}OP$ Molecular Weight: 340.44

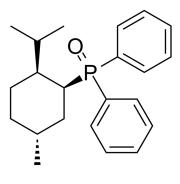
Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: Powder -20°C 3 years

In solvent -80°C 6 months

-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO: 10 mg/mL (29.37 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.9374 mL	14.6869 mL	29.3738 mL
	5 mM	0.5875 mL	2.9374 mL	5.8748 mL
	10 mM	0.2937 mL	1.4687 mL	2.9374 mL

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

BIOLOGICAL ACTIVITY

Description

DPO-1 is a potent inhibitor of the voltage-gated potassium channel subtype K_v 1.5 and a blocker of ultrarapid delayed rectifier potassium current. DPO-1 prevents atrial arrhythmia^{[1][2]}.

REFERENCES

[1]. Lagrutta A, et al. Novel, potent inhibitors of human Kv1.5 K+ channels and ultrarapidly activating delayed rectifier potassium current. J Pharmacol Exp Ther. 2006 Jun;317(3):1054-63.

[2]. Stump GL, et al. In vivo antiarrhythmic and cardiac electrophysiologic effects of a novel diphenylphosphine oxide IKur blocker (2-isopropyl-5-methylcyclohexyl) diphenylphosphine oxide. J Pharmacol Exp Ther. 2005 Dec;315(3):1362-7.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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