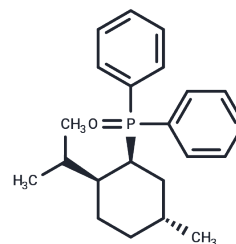


DPO-1

Chemical Properties

CAS No. : 43077-30-1
 Formula: C₂₂H₂₉OP
 Molecular Weight: 340.44
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	DPO-1 is a blocker of IKur ultrarapid delayed rectifier potassium current and KV1.5 channels
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	DMSO: 3.41 mg/mL (10.02 mM),Sonication is recommended. Ethanol: < 34.04 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0587 mL	0.2937 mL	0.5875 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

Tsvetkov D , Tano J Y , K Assmann M , et al. The Role of DPO-1 and XE991-Sensitive Potassium Channels in Perivascular Adipose Tissue-Mediated Regulation of Vascular Tone.
 Mondejar-Parreo G , Callejo M , Barreira B , et al. miR-1 is increased in pulmonary hypertension and downregulates Kv1.5 channels in rat pulmonary arteries[J]. The Journal of Physiology, 2018.

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