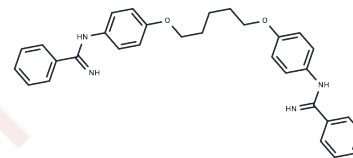


IK1 inhibitor PA-6

Chemical Properties

CAS No. :	500715-03-7
Formula:	C ₃₁ H ₃₂ N ₄ O ₂
Molecular Weight:	492.61
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	IK1 inhibitor PA-6 (PA-6) is a selective and potent inhibitor of IK1 (KIR2.x ion-channel-carried inward rectifier current) with an IC ₅₀ of 12-15 nM for human and mouse KIR2.x currents.
Targets(IC ₅₀)	Potassium Channel

Solubility Information

Solubility	DMSO: 120 mg/mL (243.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.12 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.030 mL	10.150 mL	20.300 mL
5 mM	0.406 mL	2.030 mL	4.060 mL
10 mM	0.203 mL	1.015 mL	2.030 mL
50 mM	0.0406 mL	0.203 mL	0.406 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

Ji Y, et al. The inward rectifier current inhibitor PA-6 terminates atrial fibrillation and does not cause ventricular arrhythmias in goat and dog models. Br J Pharmacol. 2017 Aug;174(15):2576-2590.

Ji Y, et al. PA-6 inhibits inward rectifier currents carried by V93I and D172N gain-of-function KIR2.1 channels, but increases channel protein expression. J Biomed Sci. 2017 Jul 15;24(1):44.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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