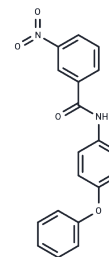


ICA-105574

Chemical Properties

CAS No. : 316146-57-3
 Formula: C₁₉H₁₄N₂O₄
 Molecular Weight: 334.33
 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	ICA-105574 (ICA) is an activator of hERG that binds to the channel to remove inactivation, thus increasing peak current amplitude and shortening the action potential. It also modulates activation kinetics of the channel.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	DMSO: 30 mg/mL (89.73 mM), 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	2.9911 mL	14.9553 mL	29.9106 mL
5 mM	0.5982 mL	2.9911 mL	5.9821 mL
10 mM	0.2991 mL	1.4955 mL	2.9911 mL
50 mM	0.0598 mL	0.2991 mL	0.5982 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

Meng J , Shi C , Li L , et al. Compound ICA-105574 prevents arrhythmias induced by cardiac delayed repolarization [J]. European Journal of Pharmacology, 2013, 718(1-3):87-97.

Zangerl-Plessl E M , Berger M , Drescher M , et al. Toward a Structural View of hERG Activation by the Small-Molecule Activator ICA-105574[J]. Journal of Chemical Information and Modeling, 2019, XXXX(XXX).

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