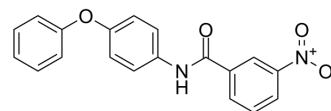


ICA-105574

Cat. No.:	HY-124702		
CAS No.:	316146-57-3		
Molecular Formula:	C ₁₉ H ₁₄ N ₂ O ₄		
Molecular Weight:	334.33		
Target:	Potassium Channel		
Pathway:	Membrane Transporter/Ion Channel		
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 : 250 mg/mL (747.76 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

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

BIOLOGICAL ACTIVITY

Description

ICA-105574 is a potent and efficacious hERG channel activator. The primary mechanism by which ICA-105574 potentiates hERG channel activity is by removing hERG channel inactivation. ICA-105574 steeply potentiates current amplitudes more than 10-fold with an EC₅₀ value of 0.5 +/- 0.1 μM and a Hill slope (n(H)) of 3.3 +/- 0.2^[1].

REFERENCES

[1]. Gerlach AC, et al. Pharmacological removal of human ether-à-go-go-related gene potassium channel inactivation by 3-nitro-N-(4-phenoxyphenyl) benzamide (ICA-105574). Mol Pharmacol. 2010;77(1):58-68.

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

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