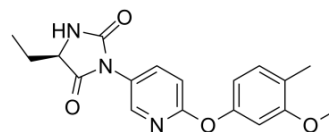


AUT1

Cat. No.:	HY-117639
CAS No.:	1311136-84-1
Molecular Formula:	C ₁₈ H ₁₉ N ₃ O ₄
Molecular Weight:	341.36
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the COA.



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (732.36 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9295 mL	14.6473 mL	29.2946 mL
	5 mM	0.5859 mL	2.9295 mL	5.8589 mL
	10 mM	0.2929 mL	1.4647 mL	2.9295 mL

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

In Vivo

- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.08 mg/mL (6.09 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.08 mg/mL (6.09 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.08 mg/mL (6.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AUT1 is a **Kv3 potassium channel** modulator, with pEC₅₀s of 5.33 and 5.31 for human recombinant Kv3.1b and Kv3.2a, respectively, exhibits 10-fold lower potency at human recombinant Kv3.3 channel (pEC₅₀, 4.5)^[1].

IC₅₀ & Target

pEC₅₀: 5.33 (Human recombinant Kv3.1b), 5.31 (Human recombinant Kv3.2a), 4.5 (Human recombinant Kv3.3)^[1]

REFERENCES

[1]. Rosato-Siri MD, et al. A Novel Modulator of Kv3 Potassium Channels Regulates the Firing of Parvalbumin-Positive Cortical Interneurons. J Pharmacol Exp Ther. 2015 Sep;354(3):251-60.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA