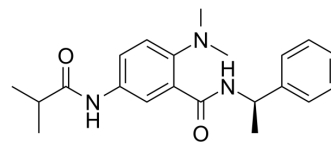


Ry796

Cat. No.:	HY-120033		
CAS No.:	1393441-53-6		
Molecular Formula:	C ₂₁ H ₂₇ N ₃ O ₂		
Molecular Weight:	353.46		
Target:	Sodium 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 : 100 mg/mL (282.92 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8292 mL	14.1459 mL	28.2917 mL
		5 mM	0.5658 mL	2.8292 mL	5.6583 mL
10 mM		0.2829 mL	1.4146 mL	2.8292 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Ry796 is a potent and selective voltage-gated potassium (K _v 2) channel inhibitor with IC ₅₀ s of 0.25 μM and 0.09 μM for K _v 2.1 and K _v 2.2. Ry796 has analgesic activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.25 μM (K _v 2.1) and 0.09 μM (K _v 2.2) ^[1]

REFERENCES

[1]. Herrington J, et al. Identification of novel and selective Kv2 channel inhibitors. Mol Pharmacol. 2011 Dec;80(6):959-64.

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