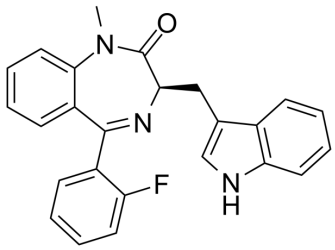
L-364,373

Cat. No.:	HY-108591
CAS No.:	103342-82-1
Molecular Formula:	$C_{25}H_{20}FN_3O$
Molecular Weight:	397.44
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 : 100 mg/mL (251.61 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5161 mL	12.5805 mL	25.1610 mL
	5 mM	0.5032 mL	2.5161 mL	5.0322 mL
	10 mM	0.2516 mL	1.2581 mL	2.5161 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 (6.29 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (6.29 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

L-364,373 (R-L3) is a voltage-gated Kv7.1 (KCNQ1)/mink channels activator. L-364,373 activates Iks (slow delayed rectifier potassium current) and shortens action potential duration in guinea pig cardiac myocytes, and suppresses early afterdepolarizations in rabbit ventricular myocytes[1].

REFERENCES

[1]. Jow F, et al. Rb+ efflux through functional activation of cardiac KCNQ1/minK channels by the benzodiazepine R-L3 (L-364,373). Assay Drug Dev Technol. 2006 Aug;4(4):443-50.

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