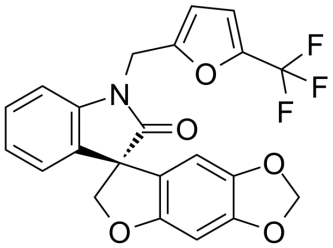
(R)-Funapide

Cat. No.:	HY-16723A
CAS No.:	1259933-15-7
Molecular Formula:	$C_{22}H_{14}F_3NO_5$
Molecular Weight:	429.35
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 : 220 mg/mL (512.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3291 mL	11.6455 mL	23.2910 mL
	5 mM	0.4658 mL	2.3291 mL	4.6582 mL
	10 mM	0.2329 mL	1.1646 mL	2.3291 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: 5 mg/mL (11.65 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 5 mg/mL (11.65 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (11.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-Funapide ((R)-TV 45070) is the less active R-enantiomer of Funapide. Funapide is a potent Nav1.7 sodium channel blocker that can be used for pain research[1].

IC_{50} & Target

$Na_V1.7$

REFERENCES

[1]. Sharan K Bagal, et al. Recent progress in sodium channel modulators for pain. Bioorg Med Chem Lett. 2014 Aug 15;24(16):3690-9.

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