Funapide

Cat. No.: HY-16723

CAS No.: 1259933-16-8

Molecular Formula: $C_{22}H_{14}F_3NO_5$

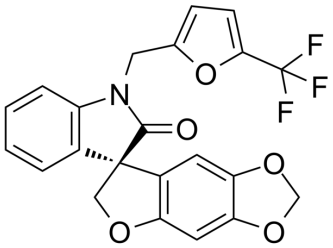
Molecular Weight: 429.35

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 : 200 mg/mL (465.82 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: ≥ 5.25 mg/mL (12.23 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5.25 mg/mL (12.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Funapide (TV 45070; XEN402) is a potent Sodium Channel Nav1.7 inhibitor.

IC_{50} & Target $Na_V1.7$

REFERENCES

[1]. Price N , et al. Safety and Efficacy of a Topical Sodium Channel Inhibitor (TV-45070) in Patients With Postherpetic Neuralgia (PHN): A Randomized, Controlled, Proof-of-Concept, Crossover Study, With a Subgroup Analysis of the Nav1.7 R1150W Genotype. Clin J Pain. 2017 Apr;33(4):310-318.

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