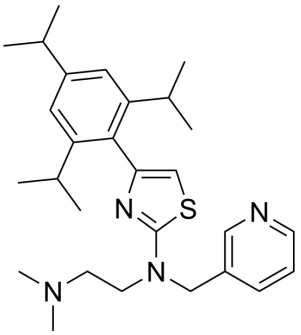
Foropafant

Cat. No.:	HY-128694
CAS No.:	136468-36-5
Molecular Formula:	$C_{28}H_{40}N_4S$
Molecular Weight:	464.72
Target:	Platelet-activating Factor Receptor (PAFR)
Pathway:	GPCR/G Protein
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 (215.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1518 mL	10.7592 mL	21.5183 mL
	5 mM	0.4304 mL	2.1518 mL	4.3037 mL
	10 mM	0.2152 mL	1.0759 mL	2.1518 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 (5.38 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.38 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Foropafant (SR27417) highly potent, competitive, selective and orally active antagonist of platelet-activating factor (PAF) receptor, with a K_i value of 57 pM for [^{3}H]PAF binding, at least 5-fold lower than that of unlabeled PAF itself. Foropafant potently inhibits PAF-induced aggregation of rabbit and human platelets[1].

IC_{50} & Target

Ki: 57 pM ([^{3}H]PAF binding)[1]

REFERENCES

[1]. Herbert JM, et al. Biochemical and pharmacological activities of SR 27417, a highly potent, long-acting platelet-activating factor receptor antagonist. J Pharmacol Exp Ther. 1991 Oct;259(1):44-51.

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