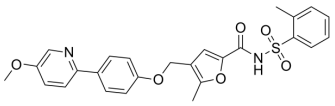
BGC-20-1531 free base

Cat. No.:	HY-19849
CAS No.:	736183-35-0
Molecular Formula:	$C_{26}H_{24}N_2O_6S$
Molecular Weight:	492.54
Target:	Prostaglandin Receptor
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 : 250 mg/mL (507.57 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.0303 mL	10.1515 mL	20.3029 mL
5 mM	0.4061 mL	2.0303 mL	4.0606 mL
10 mM	0.2030 mL	1.0151 mL	2.0303 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: ≥ 2.08 mg/mL (4.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BGC-20-1531 (PGN 1531) free base is a potent and selective prostanoid EP_4 receptor antagonist, with a pK_B of 7.6. BGC-20-1531 free base has the potential for the research of migraine headache[1].

IC_{50} & Target

EP4
7.6 (pKd)

In Vitro

BGC-20-1531 free base competitively antagonized PGE_2-induced vasodilatation of human middle cerebral (pK_b=7.8) and meningeal (pK_b=7.6) arteries, but had no effect on responses induced by PGE_2 on coronary, pulmonary or renal arteries[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

BGC-20-1531 free base (1-10 mg/kg; i.v.) causes a dose-dependent antagonism of the PGE_2-induced increase in canine carotid blood flow[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Beagle dogs[1]
Dosage:	1-10 mg/kg
Administration:	I.v.
Result:	Caused a dose-dependent antagonism of the PGE_2-induced increase in canine carotid blood flow.

REFERENCES

[1]. Maubach KA, et al. BGC20-1531, a novel, potent and selective prostanoid EP receptor antagonist: a putative new treatment for migraine headache. Br J Pharmacol. 2009;156(2):316-327.

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