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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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TG4-155

Cat. No.: HY-18971

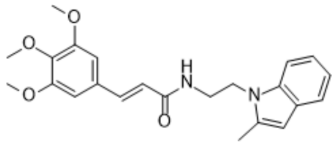
CAS No.: 1164462-05-8

Molecular Formula: $C_{23}H_{26}N_2O_4$

Molecular Weight: 394.46

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (316.89 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5351 mL	12.6756 mL	25.3511 mL
	5 mM	0.5070 mL	2.5351 mL	5.0702 mL
	10 mM	0.2535 mL	1.2676 mL	2.5351 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 (5.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TG4-155 is a potent, brain-permeant and selective EP2 receptor antagonist with a K_i of 9.9 nM[1][2]. TG4-155 shows low nanomolar antagonist activity against only EP2 and DP1[1]. TG4-155 has an EP2 Schild K_B of 2.4 nM and displays 550-4750-fold selectivity for EP2 over EP1, EP3, EP4 and IP, but only 14-fold selectivity against the DP1 receptor[2].

In Vitro

TG4-155 inhibits the serotonin 5-HT2B receptor with IC_{50}=2.6 μM and hERG (human Ether-à-go-go-Related Gene) with IC_{50} =12 μM[1].

PGE_2 (0.1-10 μM) stimulation significantly enhances human prostate cancer cell line PC3 cell growth in a concentration-dependent manner with a maximal response being obtained at approximately 1 μM. This PGE_2-induced cancer cell proliferation is significantly suppressed by TG4-155 (0.01-1μM ; 48 hours) in a concentration-dependent manner[1].

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

Cell Viability Assay[1]

Cell Line:	PC3 cells
Concentration:	48 hours
Incubation Time:	0.01, 0.1, and 1 μM
Result:	Significantly suppressed PGE_2-induced cancer cell proliferation in a concentration-dependent manner.

In Vivo

Administration of TG4-155 (5 mg/kg, i.p.; at 1 and 12 h) significantly reduces status epilepticus (SE)-induced neurodegeneration scores in C57BL/6 mice[3].
TG4-155 (3 mg/kg; i.p.) displays a bioavailability of 61% (i.p. route compared with i.v.), a plasma half-life ($t_{1/2}$) of 0.6 h, and a brain/plasma ratio of 0.3 in C57BL/6 mice[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 mice (8-12 wk old)[3]
Dosage:	5 mg/kg
Administration:	I.p.; at 1 and 12 h
Result:	Administration significantly reduced SE-induced neurodegeneration scores by 91% in hippocampal subregions CA1, by 80% in CA3, and by 63% in hilus.

Animal Model:	C57BL/6 mice[3]
Dosage:	3 mg/kg
Administration:	I.p.
Result:	Displayed a bioavailability of 61% (i.p. route compared with i.v.), $t_{1/2}$ of 0.6 h, and a brain/plasma ratio of 0.3.

CUSTOMER VALIDATION

- J Cell Mol Med. 2021 Oct 5.

See more customer validations on www.MedChemExpress.com

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