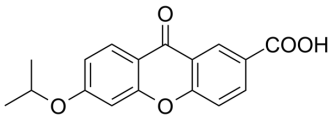
AH 6809

Cat. No.:	HY-10418
CAS No.:	33458-93-4
Molecular Formula:	$C_{17}H_{14}O_5$
Molecular Weight:	298.29
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
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 : 25 mg/mL (83.81 mM; Need ultrasonic)
H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.3524 mL	16.7622 mL	33.5244 mL
5 mM	0.6705 mL	3.3524 mL	6.7049 mL
10 mM	0.3352 mL	1.6762 mL	3.3524 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 (8.38 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (8.38 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

AH 6809 is an antagonist of EP and DP receptor, with K_is of 1217, 1150, 1597, and 1415 nM for the cloned human EP_1, EP_2, EP_3-III, and DP receptor respectively. AH 6809 has a K_i of 350 nM for mouse EP_2 receptor[1][2][3].

In Vitro

AH 6809 (1 μM; 30 min) inhibits T. serrulatus venom (TsV)-induced and PGE_2-amplified IL-1β and cAMP production in macrophages[4].
AH 6809 (30-300 μM) antagonizes the anti-aggregatory activity of PGD2 in whole blood, with an apparent pA_2 of 5.35[5].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

AH 6809 (5 mg/kg; i.p.) decreases TsV-induced mortality, PGE_2 and IL-1β production and neutrophil infiltration in the lungs

of mice[4].

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

CUSTOMER VALIDATION

- Cell Immunol. 2020 Jan;347:104025.
- Neurol Int. 2022, 14(1), 11-33.

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REFERENCES

[1]. Abramovitz M, et, al. The utilization of recombinant prostanoid receptors to determine the affinities and selectivities of prostaglandins and related analogs. Biochim Biophys Acta. 2000 Jan 17;1483(2):285-93.

[2]. Kiriyama M, et, al. Ligand binding specificities of the eight types and subtypes of the mouse prostanoid receptors expressed in Chinese hamster ovary cells. Br J Pharmacol. 1997 Sep;122(2):217-24.

[3]. Woodward DF, et, al. 6-Isopropoxy-9-oxoxanthene-2-carboxylic acid (AH 6809), a human EP2 receptor antagonist. Biochem Pharmacol. 1995 Nov 9;50(10):1731-3.

[4]. Zoccal KF, et, al. Opposing roles of LTB4 and PGE2 in regulating the inflammasome-dependent scorpion venom-induced mortality. Nat Commun. 2016 Feb 23;7:10760.

[5]. Keery RJ, et, al. AH6809, a prostaglandin DP-receptor blocking drug on human platelets. Br J Pharmacol. 1988 Jul;94(3):745-54.

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