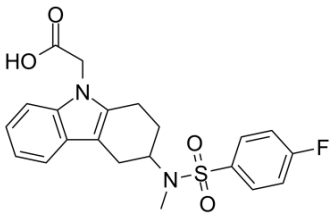
CAY10471 Racemate

Cat. No.:	HY-13706		
CAS No.:	844639-57-2		
Molecular Formula:	$C_{21}H_{21}FN_2O_4S$		
Molecular Weight:	416.47		
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 : 150 mg/mL (360.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4011 mL	12.0057 mL	24.0113 mL
	5 mM	0.4802 mL	2.4011 mL	4.8023 mL
	10 mM	0.2401 mL	1.2006 mL	2.4011 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 (6.00 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 2.5 mg/mL (6.00 mM); Clear solution
3. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 2.5 mg/mL (6.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CAY10471 Racemate (TM30089 Racemate) is a potent and highly selective **prostaglandin D2 receptor CRTH2** antagonist, with a **K_i** of 0.6 nM for hCRTH2, selective over human thromboxane A2 receptor TP (K_i, >10000 nM) or PGD2 receptor DP (K_i, 1200 nM). CAY10471 Racemate also has effect on mouse and rat orthologs of CRTH2[1].

IC_{50} & Target

Ki: 0.6 nM (CRTH2), 1200 nM (DP)[1]

In Vitro	CAY10471 Racemate (Compound 13) inhibits PGD2-induced inositol phosphate or cAMP formation, suppresses β-arrestin translocation with IC_{50}s of 12 and 3 nM, respectively[1].

REFERENCES

[1]. Ulven T, et al. Minor structural modifications convert the dual TP/CRTH2 antagonist ramatroban into a highly selective and potent CRTH2 antagonist. J Med Chem. 2005 Feb 24;48(4):897-900.

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