HHS-0701

Cat. No.: HY-138665

CAS No.: 2851993-91-2

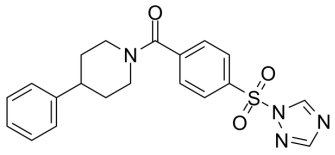
Molecular Formula: $C_{20}H_{20}N_4O_3S$

Molecular Weight: 396.46

Target: Prostaglandin Receptor

Pathway: GPCR/G Protein

Storage: Powder -20°C 3 years
4°C 2 years
* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (252.23 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5223 mL	12.6116 mL	25.2232 mL
	5 mM	0.5045 mL	2.5223 mL	5.0446 mL
	10 mM	0.2522 mL	1.2612 mL	2.5223 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 (5.25 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.25 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HHS-0701, a sulfur-triazole exchange (SuTEx) ligand, is a potent tyrosine-reactive prostaglandin reductase 2 (PTGR2) inhibitor. HHS-0701 blocks PTGR2 metabolism of the lipid substrate 15-Keto-PGE2[1].

In Vitro

HHS-0701 (0.1, 0.25, 0.5, 1, 2.5, 5, 10, 25 μM; 2 hours) results concentration-dependent blockade of probe labeling in treatment of recombinant PTGR2 overexpressing HEK293T cells[1].

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

REFERENCES

[1]. Emmanuel K Toroitich, et al.Discovery of a Cell-Active SuTEx Ligand of Prostaglandin Reductase 2. Chembiochem. 2021 Jun 15;22(12):2134-2139.

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