# HHS-0701

**Cat. No.:** HY-138665

**CAS No.:** 2851993-91-2

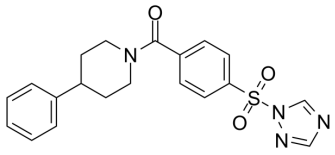
**Molecular Formula:** $C_{20}H_{20}N_4O_3S$

**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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