# SC-51322

**Cat. No.:** HY-108562

**CAS No.:** 146032-79-3

**Molecular Formula:** $C_{22}H_{20}ClN_3O_4S$

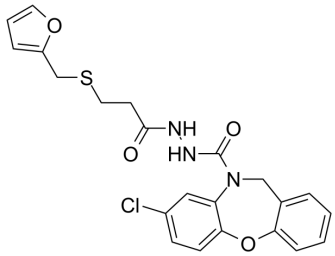
**Molecular Weight:** 457.93

**Target:** Prostaglandin Receptor

**Pathway:** GPCR/G Protein

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (218.37 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.1837 mL | 10.9187 mL | 21.8374 mL |
| | 5 mM | 0.4367 mL | 2.1837 mL | 4.3675 mL |
| | 10 mM | 0.2184 mL | 1.0919 mL | 2.1837 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 (5.46 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

SC-51322 is a potent and selective antagonist of prostaglandin E2 ($PGE_2$) receptor ($EP_1$), with a $pA_2$ of 8.1. SC-51322 has the pain-relieving effect[1].

## REFERENCES

[1]. Hallinan EA, et, al. 8-chlorodibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid,2-[3-[2-(furanylmethyl)thio]-1-oxopropyl]hydrazide (SC-51322): A potent PGE2 antagonist and analgesic. Bioorganic & Medicinal Chemistry Letters. Feb 1994. 4(3): 509-514.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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