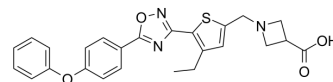


CS-2100

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-108493 | | |
| CAS No.: | 913827-99-3 | | |
| Molecular Formula: | C ₂₅ H ₂₃ N ₃ O ₄ S | | |
| Molecular Weight: | 461.53 | | |
| Target: | LPL 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 : 12.5 mg/mL (27.08 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 2.1667 mL | 10.8335 mL | 21.6671 mL |
| | 5 mM | 0.4333 mL | 2.1667 mL | 4.3334 mL |
| | 10 mM | 0.2167 mL | 1.0834 mL | 2.1667 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (2.71 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (2.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CS-2100 (Compound 10b) is a potent, selective, orally active and S1P₃-sparing S1P₁ agonist with an EC₅₀ of 4.0 nM for human S1P₁. CS-2100 shows in vivo immunosuppressive efficacy in rats with an ID₅₀ (infective dose) of 0.407 mg/kg for HvGR^[1].

IC₅₀ & Target

EC₅₀: 4.0 nM (human S1P₁)^[1]

REFERENCES

- [1]. Nakamura T, et al. Discovery of CS-2100, a potent, orally active and S1P₃-sparing S1P₁ agonist. *Bioorg Med Chem Lett*. 2012 Feb 15;22(4):1788-92.

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

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