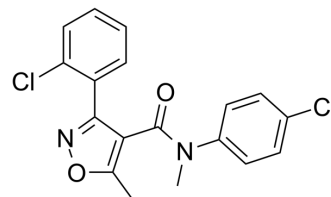


## TGR5 Receptor Agonist

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-14229  |       |          |
| <b>CAS No.:</b>           | 1197300-24-5  |       |          |
| <b>Molecular Formula:</b> | C <sub>18</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub> |       |          |
| <b>Molecular Weight:</b>  | 361.22  |       |          |
| <b>Target:</b>            | GPCR19  |       |          |
| <b>Pathway:</b>           | GPCR/G Protein  |       |          |
| <b>Storage:</b>           | Powder  | -20°C | 3 years  |
|                           |   | 4°C   | 2 years  |
|                           | In solvent  | -80°C | 6 months |
|                           |   | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 48 mg/mL (132.88 mM)  
 \* "≥" means soluble, but saturation unknown.

| Concentration             | Solvent | Mass      |            |            |
|---------------------------|---------|-----------|------------|------------|
|                           |         | 1 mg      | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM    | 2.7684 mL | 13.8420 mL | 27.6840 mL |
|                           | 5 mM    | 0.5537 mL | 2.7684 mL  | 5.5368 mL  |
|                           | 10 mM   | 0.2768 mL | 1.3842 mL  | 2.7684 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: ≥ 10 mg/mL (27.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 10 mg/mL (27.68 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

TGR5 Receptor Agonist (CCDC), a potent TGR5(GPCR19) agonist, shows improved potency in the U2-OS cell assay (pEC<sub>50</sub> =6.8) and in melanophore cells (pEC<sub>50</sub>=7.5)<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub> value: 6.8 (pEC<sub>50</sub>, U2-OS cell assay); 7.5 (pEC<sub>50</sub>, melanophore cell)<sup>[1]</sup>

### REFERENCES

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

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