

PF-5190457

## Chemical Properties

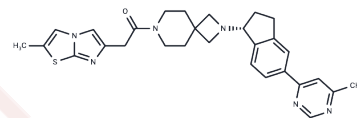
CAS No. : 1334782-79-4

Formula: C<sub>29</sub>H<sub>32</sub>N<sub>6</sub>O<sub>5</sub>

Molecular Weight: 512.67

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |   |
|---------------|---|
| Description   | PF-5190457 is an effective and selective ghrelin receptor inverse agonist (pKi: 8.36).  |
| Targets(IC50) | GHSR  |
| In vitro      | PF-5190457 demonstrates an optimal balance of ghrelin receptor pharmacology along with off-target selectivity [1].                                      |
| In vivo       | In human whole and dispersed islets, PF-5190457 has excellent selectivity and demonstrates robust increases in glucose-stimulated insulin secretion[1]. |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 7.1 mg/mL (13.85 mM),Sonication is recommended.<br>Ethanol: 100 mg/mL (195.06 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (9.75 mM),Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

---

|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 1.9506 mL  | 9.7529 mL  | 19.5057 mL  |
| 5 mM  | 0.3901 mL  | 1.9506 mL  | 3.9011 mL   |
| 10 mM | 0.1951 mL  | 0.9753 mL  | 1.9506 mL   |
| 50 mM | 0.039 mL   | 0.1951 mL  | 0.3901 mL   |

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Bhattacharya SK, et al. Discovery of PF-5190457, a Potent, Selective, and Orally Bioavailable Ghrelin Receptor Inverse Agonist Clinical Candidate. ACS Med Chem Lett. 2014 Feb 24;5(5):474-9.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481