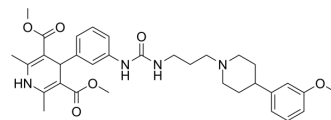


## BMS-193885

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-120619   |       |          |
| <b>CAS No.:</b>           | 186185-03-5   |       |          |
| <b>Molecular Formula:</b> | C <sub>33</sub> H <sub>42</sub> N <sub>4</sub> O <sub>6</sub> |       |          |
| <b>Molecular Weight:</b>  | 590.71  |       |          |
| <b>Target:</b>            | Neuropeptide Y Receptor                                       |       |          |
| <b>Pathway:</b>           | GPCR/G Protein; Neuronal Signaling                            |       |          |
| <b>Storage:</b>           | Powder  | -20°C | 3 years  |
|                           |   | 4°C   | 2 years  |
|                           | In solvent  | -80°C | 6 months |
|                           |   | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

|   |  |                          |           |            |
|---|--|--------------------------|-----------|------------|
| <b>In Vitro</b>   | DMSO : 100 mg/mL (169.29 mM; Need ultrasonic)  |                          |           |            |
|   |  | Solvent<br>Concentration | Mass      |            |
|   |  |                          | 1 mg      | 5 mg       |
|   | <b>Preparing Stock Solutions</b>   |                          | 10 mg     |            |
|   | <b>1 mM</b>  | 1.6929 mL                | 8.4644 mL | 16.9288 mL |
|   | <b>5 mM</b>  | 0.3386 mL                | 1.6929 mL | 3.3858 mL  |
|   | <b>10 mM</b>   | 0.1693 mL                | 0.8464 mL | 1.6929 mL  |
| Please refer to the solubility information to select the appropriate solvent. |  |                          |           |            |
| <b>In Vivo</b>  | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.5 mg/mL (4.23 mM); Clear solution<br><br>2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: 2.5 mg/mL (4.23 mM); Suspended solution; Need ultrasonic |                          |           |            |

### BIOLOGICAL ACTIVITY

|                                     |   |
|-------------------------------------|---|
| <b>Description</b>                  | BMS-193885 is a potent, selective, competitive, and brain penetrant neuropeptide Y <sub>1</sub> receptor antagonist with a K <sub>i</sub> of 3.3 nM, and has an IC <sub>50</sub> of 5.9 nM for hY <sub>1</sub> , which displays > 100, > 160, > 160 and > 160-fold selectivity over α <sub>1</sub> , hY <sub>2</sub> , hY <sub>4</sub> and hY <sub>5</sub> receptors, respectively [1] [2]. |
| <b>IC<sub>50</sub> &amp; Target</b> | Ki: 3.3 nM (Neuropeptide Y <sub>1</sub> receptor) <sup>[1]</sup><br>IC50: 5.9 nM (hY <sub>1</sub> ) <sup>[1]</sup>  |

### REFERENCES

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[1]. Antal-Zimanyi I, et al. Pharmacological characterization and appetite suppressive properties of BMS-193885, a novel and selective neuropeptide Y(1) receptor antagonist. *Eur J Pharmacol.* 2008 Aug 20;590(1-3):224-32.

[2]. Poindexter GS, et al. Dihydropyridine neuropeptide Y Y(1) receptor antagonists. *Bioorg Med Chem Lett.* 2002 Feb 11;12(3):379-82.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA