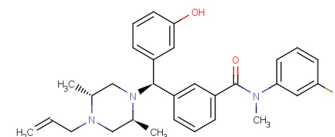


DPI-3290

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 182417-73-8 |
| Formula: | C30H34FN3O2 |
| Molecular Weight: | 487.61 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|--|
| Description | DPI-3290 is a specific agonist of opioid receptors (K _i : 0.18 nM, 0.46 nM, and 0.62 nM for δ-, μ-, and κ-opioid receptors, respectively) with potent antinociceptive activity. DPI-3290 is one of a series of novel centrally acting agents. |
| Targets(IC ₅₀) | δ-opioid receptor: 0.18 nM μ-opioid receptor: 0.46 nM κ-opioid receptor: 0.62 nM |
| In vivo | In rats, DPI-3290 (i.v; 0.05 mg/kg) produces a 50% antinociceptive response. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.051 mL | 10.254 mL | 20.508 mL |
| 5 mM | 0.41 mL | 2.051 mL | 4.102 mL |
| 10 mM | 0.205 mL | 1.025 mL | 2.051 mL |
| 50 mM | 0.041 mL | 0.205 mL | 0.41 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Gengo PJ, et al. DPI-3290 [(+)-3-((alpha-R)-alpha-((2S,5R)-4-allyl-2,5-dimethyl-1-piperazinyl)-3-hydroxybenzyl)-N-(3-fluorophenyl)-N-methylbenzamide]. I. A mixed opioid agonist with potent antinociceptive activity. *J Pharmacol Exp Ther.* 2003 Dec;307(3):1221-6.

Inhibitors · Natural Compounds · Compound Libraries

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