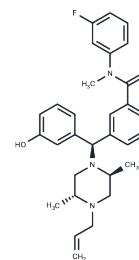


DPI-3290

## Chemical Properties

CAS No. : 182417-73-8  
 Formula: C<sub>30</sub>H<sub>34</sub>FN<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 487.61  
 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	DPI-3290 is a specific agonist of opioid receptors (K <sub>i</sub> : 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 <sub>50</sub> )	Opioid Receptor
In vivo	In rats, DPI-3290 (i.v; 0.05 mg/kg) produces a 50% antinociceptive response.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0508 mL	10.2541 mL	20.5082 mL
5 mM	0.4102 mL	2.0508 mL	4.1016 mL
10 mM	0.2051 mL	1.0254 mL	2.0508 mL
50 mM	0.041 mL	0.2051 mL	0.4102 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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