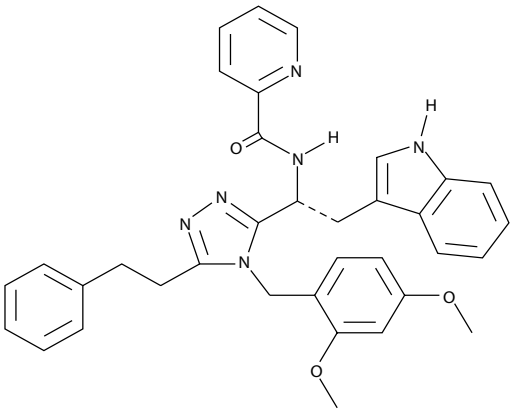
Product Information

JMV3002

Item No. 10012699



CAS Registry No.: 925239-03-8
Formal Name: N-[(1R)-1-[4-[(2,4-dimethoxyphenyl) methyl]-5-(2-phenylethyl)-4H-1,2,4-triazol-3-yl]-2-(1H-indol-3-yl)ethyl]-2-pyridinecarboxamide
MF: $C_{35}H_{34}N_6O_3$
FW: 586.7
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate
UV/Vis.: λ_{max}: 270 nm

Laboratory Procedures

For long term storage, we suggest that JMV3002 be stored as supplied at -20°C. It should be stable for at least one year.

JMV3002 is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of JMV3002 in these solvents is approximately 20 mg/ml.

JMV3002 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of JMV3002 should be diluted with the aqueous buffer of choice. JMV3002 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Ghrelin is an endogenous ligand for the growth hormone secretagogue receptor that stimulates food intake and transduces signals to hypothalamic regulatory nuclei that control energy homeostasis. JMV3002 is a potent ghrelin receptor antagonist with an IC_{50} value of 1.1 nM *in vitro*.[1] At 80 µg/kg, JMV3002 inhibits hexarelin-stimulated food intake by as much as 98% in rats.[1] JMV3002 alone does not elicit growth hormone release nor does it inhibit hexarelin-stimulated growth hormone secretion when tested in infant rats at a dose of 160 µg/kg.[1]

Reference

1. Moulin, A., Demange, L., Ryan, J., *et al.* New trisubstituted 1,2,4-triazole derivatives as potent ghrelin receptor antagonists. 3. Synthesis and pharmacological *in vitro* and *in vivo* evaluations. *J. Med. Chem.* **51**, 689-693 (2008).

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