

Product Data Sheet

Product Name: BIM 187
 Cat. No.: GC15165

Chemical Properties

Cas. No. 137734-88-4

Chemical Name (S)-N1-((2S,5S,8S,14S,17S,20S)-14-(((R)-4H-imidazol-4-yl)methyl)-20-carbamoyl-1-(1H-indol-3-yl)-17-isobutyl-8-isopropyl-5,22-dimethyl-3,6,9,12,15,18-hexaoxo-4,7,10,13,16,19-hexaazatricosan-2-yl)-2-((R)-2-amino-3-phenylpropanamido)pentanediamide

SMILES O=C([C@H](CC(C)C)NC([C@H](C[C@H]1N=CN=C1)NC(CNC([C@H](C(C)C)NC([C@H](C)NC([C@H](CC2=CNC3=CC=CC=C23)NC([C@H](CCC(N)=O)NC([C@@H](CC4=CC=CC=C4)N)=O)=O)=O)=O)=O)=O)=O)N[C@H](C(N)=O)CC(C)C

Formula C₅₃H₇₆N₁₄O₁₀ M.Wt 1069.27

Solubility Soluble to 2 mg/ml in Water Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Bombesin has common effects on the gastrointestinal tract and feeding behavior. Bombesin acts on two types of receptors including one with high affinity for neuromedin B and another with high affinity for bombesin and gastrin-releasing peptide (GRP). BIM 187 is a new peptide of bombesin while BIM 189 is a potent bombesin antagonist.

In vitro: Bombesin stimulates mainly the bombesin high-affinity receptor, and BIM 187 ([D-Phe I ,Leu 8'9]litorin-NHe), a new bombesin agonist, stimulates the bombesin/GRP receptor type. [2].

In vivo: To study the mechanism by which bombesin induces satiety, we studied the

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effect of BIM187 on food intake in rats fed 6 h a day. BIM 187 at 4 µg/kg, reduced food intake at 30 min significantly, but did not change the total 6-h food intake. BIM 189 (10 mg/kg), had no effect on food intake, even at high doses (20 mg/kg). BIM 189 selectively reduced bombesin-induced satiety but had no effect on satiety induced by BIM 187 [2].

Clinical trial: Up to now, BIM 187 is still in the preclinical development stage.

Reference:

[1] Coy D, Wang LH, Jiang NY, Jensen R. Short chain bombesin pseudopeptides with potent bombesin receptor antagonist activity in rat and guinea pig pancreatic acinar cells. *Eur J Pharmacol.* 1990 Nov 6;190(1-2):31-8.

[2] Laferrère B, Leroy F, Bonhomme G, Le Gall A, Basdevant A, Guy-Grand B. Effects of bombesin, of a new bombesin agonist (BIM187) and a new antagonist (BIM189) on food intake in rats, in relation to cholecystokinin. *Eur J Pharmacol.* 1992 Apr 29;215(1):23-8.

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