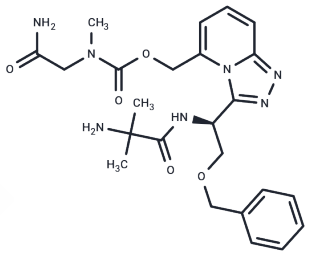
Data Sheet (Cat.No.T40876)

TargetMol

BMS-604992 free base

Chemical Properties



CAS No. : 760944-56-7

Formula: C24H31N7O5

Molecular Weight: 497.556

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	BMS-604992 (EX-1314) free base is a selective, orally active, small-molecule growth hormone secretagogue receptor (GHSR) agonist with high-affinity binding (k i = 2.3 nM) and potent functional activity (EC 50 = 0.4 nM), capable of stimulating food intake in rodents.
Targets(IC50)	Others,GHSR
In vitro	BMS-604992 demonstrates high-affinity binding (K i = 2.3 nM) and potent functional activity (EC 50 = 0.4 nM) for the ghrelin receptor[1].
In vivo	BMS-604992 (500 μg/kg; i.p.; 5 minutes) significantly increases gastric emptying compared to vehicle-treated mice[1]. BMS-604992 (1~1000 mg/kg; p.o.; 1 hour) exhibits a dose-linear increase in plasma concentrations and a dose-responsive increase in food intake relative to vehicle-treated controls, with a minimum effective dose of approximately 10 mg/kg[1]. BMS-604992 (300 mg/kg; p.o.; 5~20 minutes) shows a significant difference at the 5-minute time point[1]. BMS-604992 (500 μg/kg; i.p.; 4 hours) increases food intake approximately 2-fold compared to vehicle-treated controls [1]. Animal Models: C57BL/6 mice, SD rat, Male GhrR KO and WT mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0098 mL	10.049 mL	20.0981 mL
5 mM	0.402 mL	2.0098 mL	4.0196 mL
10 mM	0.201 mL	1.0049 mL	2.0098 mL
50 mM	0.0402 mL	0.201 mL	0.402 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

Charoenthongtrakul S, et, al. Enhanced gastrointestinal motility with orally active ghrelin receptor agonists. J Pharmacol Exp Ther. 2009 Jun;329(3):1178-86.

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