

BMS-604992 dihydrochloride

Cat. No.: HY-14495B CAS No.: 1469750-46-6 Molecular Formula: $C_{24}H_{33}Cl_2N_7O_5$

Molecular Weight: 570.47 Target: **GHSR**

Pathway: GPCR/G Protein

Please store the product under the recommended conditions in the Certificate of Storage:

Product Data Sheet

BIOLOGICAL ACTIVITY

Description BMS-604992 (EX-1314) dihydrochloride is a selective, orally active small-molecule growth hormone secretagogue receptor (GHSR) agonist. BMS-604992 dihydrochloride demonstrates high-affinity binding (k_i=2.3 nM) and potent functional activity (EC₅₀=0.4 nM). BMS-604992 dihydrochloride can stimulate food intake in rodents^[1].

IC₅₀ & Target EC50: 0.4 nM (GHSR), Ki: 2.3 nM (GHSR)^[1]

BMS-604992 exhibits high-affinity binding (K_i=2.3 nM) and potent functional activity (EC₅₀=0.4 nM) for ghrelin receptor^[1]. In Vitro MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo BMS-604992 (500 μg/kg; i.p.; 5 minutes) results in a significant increase in gastric emptying compared with vehicle-treated $mice^{[1]}$.

> BMS-604992 (1~1000 mg/kg; p.o.; 1 hour) Shows a dose-linear increase in plasma concentrations at the 1 hour time point and elicits 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) produces a significant difference at the 5 minutes time point^[1].

BMS-604992 (500 µg/kg; i.p.; 4 hours) increases food intake approximately 2-fold compared with vehicle-treated controls^[1].

MCE has not independe	ently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	C57BL/6 mice
Dosage:	500 μg/kg
Administration:	I.p.; 5 minutes
Result:	Resulted in a significant increase in gastric emptying compared with vehicle-treated mice.
Animal Model:	C57BL/6 mice
Dosage:	1~1000 mg/kg
Administration:	P.o.; 1 hour
Result:	Showed a dose-linear increase in plasma concentrations at the 1 hour time point and

	elicited a dose-responsive increase in food intake relative to vehicle-treated controls, with a minimum effective dose of approximately 10 mg/kg.
Animal Model:	SD rat
Dosage:	300 mg/kg
Administration:	P.o.; 5~20 minutes
Result:	Observed a significant difference at the 5 minutes time point.
Animal Model:	Male GhrR KO and WT mice
Dosage:	500 μg/kg
Administration:	I.p.; 4 hours
Result:	Increased food intake approximately 2-fold compared with vehicle-treated controls.

REFERENCES

[1]. Charoenthongtrakul S, et al. Enhanced gastrointestinal motility with orally active ghrelin receptor agonists. J Pharmacol Exp Ther. 2009;329(3):1178-1186.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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