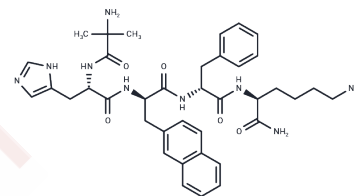


Ipamorelin

Chemical Properties

CAS No. :	170851-70-4
Formula:	C38H49N9O5
Molecular Weight:	711.85
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Ipamorelin (NNC-26-0161) is a growth-hormone-releasing peptide, induces longitudinal bone growth in rats.
Targets(IC50)	Others
In vitro	In vitro, ipamorelin released GH from primary rat pituitary cells with a potency and efficacy similar to GHRP-6 (ECs) = 1.3+/-0.4nmol/l and Emax = 85+/-5% vs 2.2+/-0.3 nmol/l and 100%).?A pharmacological profiling using GHRP and growth hormone-releasing hormone (GHRH) antagonists clearly demonstrated that ipamorelin, like GHRP-6, stimulates GH release via a GHRP-like receptor[1]
In vivo	In pentobarbital anaesthetised rats, ipamorelin released GH with a potency and efficacy comparable to GHRP-6 (ED50 = 80+/-42nmol/kg and Emax = 1545+/-250ng GH/ml vs 115+/-36nmol/kg and 1167+/-120ng GH/ml).?In conscious swine, ipamorelin released GH with an ED50 = 2.3+/-0.03 nmol/kg and an Emax = 65+/-0.2 ng GH/ml plasma.? Again, this was very similar to GHRP-6 (ED50 = 3.9+/-1.4 nmol/kg and Emax = 74+/-7ng GH/ml plasma)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4048 mL	7.024 mL	14.0479 mL
5 mM	0.281 mL	1.4048 mL	2.8096 mL
10 mM	0.1405 mL	0.7024 mL	1.4048 mL
50 mM	0.0281 mL	0.1405 mL	0.281 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

Raun K , Hansen B , Johansen N , et al. Ipamorelin, the first selective growth hormone secretagogue[J]. European Journal of Endocrinology, 1998, 139(5):552-561.

Johansen P B , Nowak J , Skj?Rb?K C , et al. Ipamorelin, a new growth-hormone-releasing peptide, induces longitudinal bone growth in rats[J]. Growth Hormone & Igf Research, 1999, 9(2):0-113.

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