

## Ipamorelin 2 Pivalic acid

## Chemical Properties

CAS No. :

Formula: C<sub>38</sub>H<sub>49</sub>N<sub>9</sub>O<sub>5</sub>.2C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>

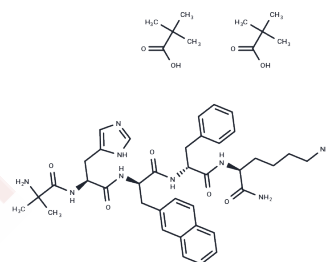
Molecular Weight: 916.12

Keep away from moisture

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	Ipamorelin 2 Pivalic acid (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].

## Solubility Information

Solubility	DMSO: 18.33 mg/mL (20.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.0916 mL	5.4578 mL	10.9156 mL
5 mM	0.2183 mL	1.0916 mL	2.1831 mL
10 mM	0.1092 mL	0.5458 mL	1.0916 mL
50 mM	0.0218 mL	0.1092 mL	0.2183 mL

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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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