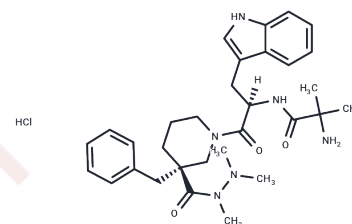


AnaMorelin hydrochloride

Chemical Properties

CAS No. :	861998-00-7
Formula:	C ₃₁ H ₄₃ ClN ₆ O ₃
Molecular Weight:	583.16
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	AnaMorelin hydrochloride (RC-1291 hydrochloride) is a novel ghrelin receptor agonist (EC ₅₀ : 0.74 nM, in the FLIPR assay).
Targets(IC ₅₀)	GHSR
In vivo	In rats, AnaMorelin hydrochloride(ANAM) significantly and dose-dependently increased FI and BW at all dose levels compared with control, and significantly increased GH levels at 10 or 30 mg/kg doses. Increases in GH and IGF-1 levels were observed following ANAM administration in pigs[1].
Animal Research	Fluorescent imaging plate reader and binding assays in HEK293 and baby hamster kidney cells determined the agonist and antagonist activity of ANAM, and its affinity for the ghrelin receptor. Rat pituitary cells were incubated with ANAM to evaluate its effect on growth hormone (GH) release. In vivo, rats were treated with ANAM 3, 10, or 30 mg/kg, or control orally, once daily for 6 days to evaluate the effect on food intake (FI) and body weight (BW), and once to assess GH response. In pigs, single (3.5 mg/kg) or continuous (1 mg/kg/day) ANAM doses were administered to assess GH and insulin-like growth factor (IGF-1) response[1].

Solubility Information

Solubility	H ₂ O: 50 mg/mL (85.74 mM),Sonication is recommended. DMSO: 28 mg/mL (48.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.43 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7148 mL	8.574 mL	17.148 mL
5 mM	0.343 mL	1.7148 mL	3.4296 mL
10 mM	0.1715 mL	0.8574 mL	1.7148 mL
50 mM	0.0343 mL	0.1715 mL	0.343 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

Pietra C , Takeda Y , Tazawa-Ogata N , et al. Anamorelin HCl (ONO-7643), a novel ghrelin receptor agonist, for the treatment of cancer anorexia-cachexia syndrome: preclinical profile[J]. Journal of Cachexia, Sarcopenia and Muscle, 2014, 5(4).

Currow D C , Skipworth R J . The emerging role of anamorelin hydrochloride in the management of patients with cancer anorexia-cachexia[J]. Future Oncology, 2017:fon-2017-0141.

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