

Amylin, amide, human

Chemical Properties

CAS No.:	122384-88-7
Formula:	C165H261N51O55S2
Molecular Weight:	3903.28
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Amylin, a 37-amino acid polypeptide that is structurally related to calcitonin, is secreted from the B cells of the pancreas. Amylin has anorectic effects in rats. Amylin may be responsible for the etiology of insulin resistance of type II diabetes mellitus through its modulation of peripheral effects of insulin.
In vitro	MCF-7 cells endogenously express human amylin receptor CTR1 and CTR2. Stimulation of the receptor with Amylin, amide, human results in the production of cAMP. Amylin, amide, human (0.001 nM-1000 µM) results in an EC50 of 35.2±7.5 nM[1].
In vivo	Amylin, amide, human (400 µg peptide /kg body weight) is injected by subcutaneous route in separated groups of swiss male mice. A typical PK curve for the free amylin is observed, with a half-time of 23 min[1].

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.256 mL	1.281 mL	2.562 mL
5 mM	0.051 mL	0.256 mL	0.512 mL
10 mM	0.026 mL	0.128 mL	0.256 mL
50 mM	0.005 mL	0.026 mL	0.051 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Sisnande T, et al. Monoconjugation of Human Amylin with Methylpolyethyleneglycol. PLoS One. 2015 Oct 8;10(10):e0138803.

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