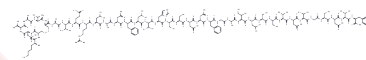


## Amylin, amide, human

## Chemical Properties

CAS No. :	122384-88-7
Formula:	C165H261N51O55S2
Molecular Weight:	3903.28
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	Amylin, amide, human is a 37-amino acid peptide hormone co-secreted with insulin to regulate postprandial glucose levels, reducing glucagon secretion and delays gastric emptying. DAP Amide's tendency to aggregate into amyloid fibrils is associated with pancreatic $\beta$ -cell damage in type 2 diabetes.
Targets(IC50)	Amylin Receptor
In vitro	Treatment of MCF-7 cells with Amylin, amide, human (0.001 nM, 0.01 nM, 0.1 nM, 1 nM, 10 nM, 100 nM, 1 $\mu$ M, 10 $\mu$ M, 100 $\mu$ M, 1000 $\mu$ M) resulted in a cAMP50 value of 35.2 $\pm$ 7.5 nM using an EC. [1]
In vivo	Amylin, amide, human (400 $\mu$ g/kg, subcutaneous injection) was administered to Swiss male mice, and a typical PK profile of free amylin, amide, human was observed with a half-life of 23 minutes. [1]

## Solubility Information

Solubility	H2O: 2 mg/mL (0.51 mM),when pH is adjusted to 1 with HCl. Sonication is recommended. DMSO: 1 mg/mL (0.26 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.2562 mL	1.281 mL	2.5619 mL
5 mM	0.0512 mL	0.2562 mL	0.5124 mL
10 mM	0.0256 mL	0.1281 mL	0.2562 mL
50 mM	0.0051 mL	0.0256 mL	0.0512 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

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

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