Data Sheet (Cat.No.TP1232)

TargetMol
A DRUG SCREENING EXPERT

Amylin, amide, rat

Chemical Properties

CAS No.:	124447-81-0
Formula:	C167H272N52O53S2
Molecular Weight:	3920.44
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Amylin is a peptide that displays 50% homology with calcitonin gene-related peptide (CGRP), Amylin is colocalized with somatostatin in endocrine cells of the gastric fundus. In isolated mouse stomach, amylin caused a concentration-dependent decrease in acid secretion.
In vitro	Amylin is an important, but poorly understood, 37 amino acid glucoregulatory hormone with great potential to target metabolic diseases. Amylin is a member of the calcitonin (CT) family of peptides, which includes CT itself, the CGRPs comprising two variants (αCGRP and βCGRP), adrenomedullin (AM) and AM2 (intermedin). Amylin is a centrally acting, neuroendocrine hormone synthesized with insulin in the beta cells of pancreatic islets. Amylin regulates glucose homeostasis by inhibiting gastric emptying, inhibiting the release of the counter-regulatory hormone glucagon and inducing meal-ending satiety. Amylin functions as a glucoregulatory and satiety-inducing hormone, which is protective against postprandial spikes in blood glucose and overeating.[1]

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.255 mL	1.275 mL	2.551 mL
5 mM	0.051 mL	0.255 mL	0.51 mL
10 mM	0.026 mL	0.128 mL	0.255 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Bower RL, et al. Amylin structure-function relationships and receptor pharmacology: implications for Amylin mimetic drug development. Br J Pharmacol. 2016 Jun;173(12):1883-98.

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