Amylin, amide, rat

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®

Cat. No.:	HY-P1464		
CAS No.:	124447-81-0		
Molecular Formula:	C ₁₆₇ H ₂₇₂ N ₅₂ O ₅₃ S ₂		
Molecular Weight:	3920.44 KCNTATCATORLANFLVRSSNNLGPVLPPTNVGSNTY-NH2 (Disadified bridge: Cyr2-Cyr2)		
Sequence:	Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Asn-Phe-Leu-Val-Arg-Ser-Ser-As n-Asn-Leu-Gly-Pro-Val-Leu-Pro-Pro-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH2 (Disulfide b ridge: Cys2-Cys7)		
Sequence Shortening:	KCNTATCATQRLANFLVRSSNNLGPVLPPTNVGSNTY-NH2 (Disulfide bridge: Cys2-Cys7)		
Target:	Amylin Receptor		
Pathway:	GPCR/G Protein		
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.2551 mL	1.2754 mL	2.5507 mL
Stock Solutions	5 mM	0.0510 mL	0.2551 mL	0.5101 mL
	10 mM	0.0255 mL	0.1275 mL	0.2551 mL

Description	Amylin, amide, rat is a potent and high affinity ligand of Amylin receptor AMY1 and AMY3 receptors and variably of AMY2 receptors; binding studies are generally used for the latter receptor.			
IC ₅₀ & Target	Amylin receptor AMY1 and AMY3 ^[1]			
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			

Product Data Sheet

postprandial spikes in blood glucose and overeating.^[1]

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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