



LKT Laboratories, Inc.

Amylin, cat

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Product Information

Product ID A4846

CAS No.

Chemical Name

Synonym IAPP, islet amyloid precursor peptide

Formula $C_{165}H_{272}N_{52}O_{54}S_2$

Formula Wt. 3912.42

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

Store Temp -20°C

Ship Temp Ambient

Description Amylin is also known as islet amyloid precursor peptide (IAPP) and is co-secreted with insulin from pancreatic β -cells. Amylin is an endogenous peptide hormone that exhibits gastrointestinal motility modulating activity, decreasing gastric emptying and suppressing gastric acid secretion; these actions slow food intake, preventing blood glucose spikes after eating and decreasing insulin demand. Misguided IAPP processing plays a significant role in the development of diabetes mellitus type 2. Like calcitonin, IAPP inhibits osteoclast activity and Ca^{2+} reabsorption in bones. This peptide binds to calcitonin-RAMP complexes.

H-Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Asn-Phe-Leu-Ile-Arg-Ser-Ser-Asn-Asn-Leu-Gly-Ala-Ile-Leu-Ser-Pro-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH₂
(Disulfide Bridge Cys2-Cys7)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A4846	0.5 mg	\$304.50
A4846	1 mg	\$517.70
A4846	2.5 mg	\$913.50

References Paulsson JF, Westermark GT. Aberrant processing of human proislet amyloid polypeptide results in increased amyloid formation. *Diabetes*. 2005 Jul;54(7):2117-25. PMID: 15983213.

Ratner RE, Dickey R, Fineman M, et al. Amylin replacement with pramlintide as an adjunct to insulin therapy improves long-term glycaemic and weight control in Type 1 diabetes mellitus: a 1-year, randomized controlled trial. *Diabet Med*. 2004 Nov;21(11):1204-12. PMID: 15498087.

Pittner RA, Albrandt K, Beaumont K, et al. Molecular physiology of amylin. *J Cell Biochem*. 1994;55 Suppl:19-28. PMID: 7929615.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.