



LKT Laboratories, Inc.

[His18]-Amylin, rat

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Product Information

Product ID A4850
CAS No.
Chemical Name

Synonym IAPP, islet amyloid precursor peptide

Formula C₁₆₇H₂₆₇N₅₁O₅₃S₂
Formula Wt. 3901.43
Melting Point
Purity ≥95%
Solubility Soluble in water.

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

Bulk quantities available upon request

Product ID	Size
A4850	0.5 mg
A4850	1 mg
A4850	2.5 mg

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 Ca²⁺ reabsorption in bones. This peptide binds to calcitonin-RAMP complexes.

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.