



LKT Laboratories, Inc.

Amylin, human

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

## Product Information

Product ID A4847

CAS No. 122384-88-7

### Chemical Name

Synonym Amlintide

Formula  $C_{165}H_{261}N_{51}O_{55}S_2$

Formula Wt. 3903.4

### Melting Point

Purity  $\geq 95\%$

Solubility Soluble in 5% acetic acid.

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

### Description

Amylin is also known as islet amyloid precursor peptide (IAPP) and is co-secreted with insulin from pancreatic  $\beta$ -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-Val-His-Ser-Ser-Asn-Asn-Phe-Gly-Ala-Ile-Leu-Ser-Ser-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH<sub>2</sub>

## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
A4847	0.5 mg	\$203.20
A4847	1 mg	\$344.10
A4847	2.5 mg	\$608.80

### 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.