

Product Data Sheet

Amylin, amide, human

Cat. No.: HY-P1070
CAS No.: 122384-88-7
Molecular Formula: $C_{165}H_{261}N_{51}O_{55}S_2$

Molecular Weight: 3903.28

Sequence: Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Asn-Phe-Leu-Val-His-Ser-Ser-As

n-Asn-Phe-Gly-Ala-Ile-Leu-Ser-Ser-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH2 (Disulfide bri

dge: Cys2-Cys7)

Sequence Shortening: KCNTATCATQRLANFLVHSSNNFGAILSSTNVGSNTY-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)

BIOLOGICAL ACTIVITY

Description

Amylin, amide, human, a 37-amino acid polypeptide, is a pancreatic hormone cosecreted with insulin that exerts unique roles in metabolism and glucose homeostasis. Amylin, amide, human inhibits glucagon secretion, delays gastric emptying, and acts as a satiety agent^[1].

In Vitro

MCF-7 cells endogenously express human amylin receptor CTR1 and CTR2. Stimulation of the receptor with Amylin, amide, human results in the production of cAMP. Amylin, amide, human (0.001 nM-1000 μ M) results in an EC₅₀ of 35.2±7.5 nM^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	MCF-7 cells
Concentration:	0.001 nM, 0.01 nM, 0.1 nM, 1 nM, 10 nM, 100 nM, 1 μ M, 10 μ M, 100 μ M, 1000 μ M
Incubation Time:	
Result:	Resulted in the production of cAMP with an EC ₅₀ of 35.2±7.5 nM.

In Vivo

Amylin, amide, human (400 μ g peptide /kg body weight) is injected by subcutaneous route in separated groups of swiss male mice. A typical PK curve for the free amylin is observed, with a half-time of 23 min^[1].

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Animal Model:	Swiss male mice (8 weeks old) $^{[1]}$
Dosage:	400 μg peptide /kg body weight (Pharmacokinetic Analysis)
Administration:	Subcutaneous route; 24 hours

Result:	Half-time of 23 min.

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[1]. Sisnande T, et al. Monoconjugation of Human Amylin with Methylpolyethyleneglycol. PLoS One. 2015 Oct 8;10(10):e0138803.

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

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