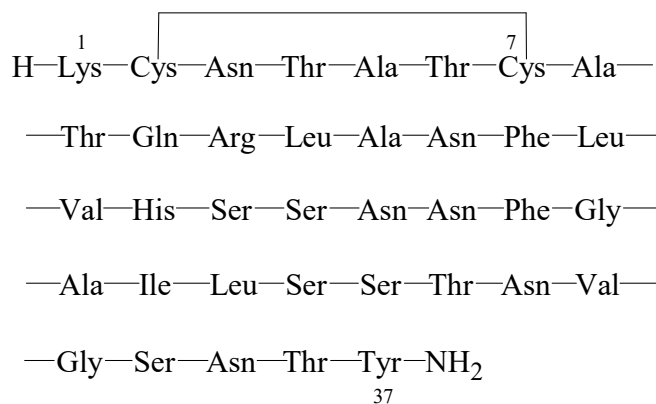




>>Entry Name: Amylin, 9CI

Synonym(s): Islet amyloid polypeptide. **Amlintide**, USAN. IAPP



CAS Registry Number: 106602-62-4

Related CAS Registry Numbers(s): 112938-42-8 126728-89-0

Extra CAS Registry Numbers(s): 122384-88-7

Molecular Formula: C₁₆₅H₂₆₁N₅₁O₅₅S₂

Molecular Weight: 3903.318

Accurate Mass: 3900.863564

Percentage Composition: C 50.77%; H 6.74%; N 18.30%; O 22.54%; S 1.64%

General Statement: Peptide. The structs. of amylin from several mammalian species are known. They comprise 37 amino-acid residues with one intramolecular disulfide bridge

Biological Source: Peptide component of amyloid deposits found in pancreases of patients with non-insulin dependent (type 2) diabetes mellitus

Use/Importance: A pancreatic islet hormone, co-secreted with insulin, whose functions incl. regulation of glucose homeostasis. Deficient in insulin dependent (type 1) and late stage type 2 diabetes. Potential for treating diabetes is limited due to amyloidogenic props. (tendency to aggregate and poor solubility). Also expressed in rat sensory neurons

>>Variant: Human

>>Derivative: 25-L-Pro-28-L-Pro-29-L-Pro

Synonym(s): **Pramlintide**, INN, USAN. Triproamylin. AC 137

CAS Registry Number: 151126-32-8

Molecular Formula: C₁₇₁H₂₆₇N₅₁O₅₃S₂

Molecular Weight: 3949.432

Accurate Mass: 3946.920684

Percentage Composition: C 52.00%; H 6.81%; N 18.09%; O 21.47%; S 1.62%

Use/Importance: Antidiabetic, antihyperglycaemic agent. Investigated for treatment of insulin dependent diabetes mellitus

Development Status: Phase III clinical trials (1996)

Other Data: Lacks amyloidogenic props. of amylin, but retains pharmacol. profile

>>Derivative: 25-L-Pro-28-L-Pro-29-L-Pro, Ac

Synonym(s): **Pramlintide acetate**, USAN

CAS Registry Number: 196078-30-5

References: