PRODUCT INFORMATION

Amylin (8-37) (human) (trifluoroacetate salt)

Item No. 24894

Formal Name: L-alanyl-L-threonyl-L-glutaminyl-L-arginyl-L-leucyl-L-alanyl-L-asparaginyl-L-phenylalanyl-L-leucyl-L-valyl-L-histidyl-L-seryl-L-seryl-L-asparaginyl-L-asparaginyl-L-phenylalanylglycyl-L-alanyl-L-isoleucyl-L-leucyl-L-seryl-L-seryl-L-threonyl-L-asparaginyl-L-valylglycyl-L-seryl-L-asparaginyl-L-threonyl-L-tyrosine, trifluoroacetate salt

Synonyms: IAPP (8-37) (human), Islet Amyloid Polypeptide (8-37) (human)

MF: $C_{138}H_{215}N_{41}O_{46} \bullet XCF_3COOH$

FW: 3,184.4

Purity: ≥95%

Supplied as: A lyophilized powder

Storage: -20°C

Stability: ≥4 years

H – 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_2

$\bullet XCF_3COOH$

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Amylin (8-37) (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the amylin (8-37) (human) (trifluoroacetate salt) in water. The solubility of amylin (8-37) (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Amylin (8-37) is a peptide fragment of amylin (Item Nos. 24274 | 24275).[1] It inhibits osteoblast proliferation, but not bone resorption, induced by full-length human amylin and does not act as an agonist at amylin receptors. Amylin (8-37) induces formation of polymorphic fibrils containing coiled and laterally-associated sheet structures.[2] It is cytotoxic to RINm5F islet β-cells *in vitro* when used at a concentration of 25 µM, an effect that is inversely correlated with mature fibril content.[3]

References

1. Cornish, J., Callon, K.E., Lin, C.Q., *et al.* Dissociation of the effects of amylin on osteoblast proliferation and bone resorption. *Am. J. Physiol.* **274(5 Pt 1)**, E827-833 (1998).
2. Goldsbury, C., Goldie, K., Pellaud, J., *et al.* Amyloid fibril formation from full-length and fragments of amylin. *J. Struct. Biol.* **130(2-3)**, 352-362 (2000).
3. Konarkowska, B., Aitken, J.F., Kistler, J., *et al.* The aggregation potential of human amylin determines its cytotoxicity towards islet β-cells. *FEBS J.* **273(15)**, 3614-3624 (2006).

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