ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

C-Peptide, Human

Cat # SP-51895-1 **C-Peptide, Human 57-87** **SIZE**: 0.5 mg

Proinsulin C-peptide was first described in 1967 in connection with the discovery of the insulin biosynthesis . It serves as an important linker between the A- and the B- chains of insulin and facilitates the efficient assembly, folding, and processing of insulin in the endoplasmic reticulum. Equimolar amounts of C-peptide and insulin are then stored in secretory granules of the pancreatic beta cells and both are eventually released to the portal circulation. Initially, the sole interest in C-peptide was as a marker of insulin secretion and has as such been of great value in furthering the understanding of the pathophysiology of type 1 and type 2 diabetes. C-peptide has been found to be a bioactive peptide in its own right, with effects on microvascular blood flow and tissue health .

Sources of Peptides

Cat # SP-51895-1
Sequence:
H-Glu-Ala-Glu-Asp-Leu-Gln-Val-Gly-Gln-Val-Gly-Leu-Gly-Gly-Gly-Pro-Gly-Ala-Gly-Ser-Leu-Gln-Pro-Leu-Ala-Leu-Glu-Gly-Ser-Leu-Gln-OH;

Mol Wt: 3020.33
Form: Powder
Counter ion TFA
Solubility: Water (1 mg/ml)
Storage: Store powder at -20°C for up to 6 months.

After reconstitution in water, store solution in small aliquots at -20oC for 3-6 months. Do not freeze and thaw or store diluted solutions.

Stability: 6-12 months at –20°C or below.

Shipping: 4°C for solutions and room temp for powder

General References: (1) Steriner DF (1967) Science 157, 697-700; Hills CE (2008) Daibetologia 44, 889-897; Wahren J (2001) Cur Diabet. Rep. 1, 261-266; Wahren J (2007) Daibetologia 50, 503-509.

*This product is for In vitro research use only.

Related material available from ADI

Catalog# Prod Description
SP-51895-1 C-Peptide, 57-87 Human (EAEDLQVGQVELGG GPGAGSLQPL ALEGSLQ)

SP-55238-1 C-Peptide, Dogs [H-Glu-Val-Glu-Asp-Leu-Gln-Val-Arg-asp-Val-Glu-Leu-Ala-Gly-Ala-Pro-Gly-Glu-Gly-Gly-Leu-Gln-Pro-Leu-Ala-Leu-Gly-Gly-Ala-Leu-Gln-OH; MW: 3174.54]

SP-89543-1 C-Peptide 1 (rat) (AA: Glu-Val-Glu-Asp-Pro-Gln-Val-Pro-Gln-Leu-Glu-Leu-Gly-Gly-Gly-Pro-Glu-Ala-Gly-Asp-Leu-Gln-Thr-Leu-Ala-Leu-Glu-Val-Ala-Arg-Gln) (MW: 3259.60)

SP-89544-1 C-Peptide 2 (rat) (AA: Glu-Val-Glu-Asp-Pro-Gln-Val-Ala-Gln-Leu-Glu-Leu-Gly-Gly-Gly-Pro-Gly-Ala-Gly-Asp-Leu-Gln-Thr-Leu-Ala-Leu-Glu-Val-Ala-Arg-Gln) (MW: 3161.50)

SP-101460-5 Insulin Receptor (1142 - 1153), Amide (AA: Thr-Arg-Asp-Ile-Tyr-Glu-Thr-Asp-Tyr-Tyr-Arg-Lys-NH2) (MW: 1621.78)

SP-101461-5 Insulin Receptor (1142-1153) (AA: Thr-Arg-Asp-Ile-Tyr-Glu-Thr-Asp-Tyr-Tyr-Arg-Lys) (MW: 1622.77)

SP-101462-5 Biotin-Insulin Receptor (1142-1153) (AA: Biotin-Thr-Arg-Asp-Ile-Tyr-Glu-Thr-Asp-Tyr-Tyr-Arg-Lys) (MW: 1849.07)

SP-101463-5 Biotin-Insulin Receptor (1142-1153), amide (AA: Biotin-Thr-Arg-Asp-Ile-Tyr-Glu-Thr-Asp-Tyr-Tyr-Arg-Lys-NH2) (MW: 1848.08)

SP-101518-5 Biotin-RR-SRC, Insulin Receptor Tyrosine Kinase Substrate (AA: Biotin -Arg-Arg-Leu-Ile-Glu-Asp-Ala-Glu-Tyr-Ala-Ala-Arg-Gly) (MW: 1745.99)

SP-101820-5 Insulin-like Growth Factor I (57-70) (AA: Ala-Leu-Leu-Glu-Thr-Tyr-Cys-Ala-Thr-Pro-Ala-Lys-Ser-Glu) (MW: 1495.7)

SP-101821-1 Insulin-Like Growth Factor II (69-84) (AA: Asp-Val-Ser-Thr-Pro-Pro-Thr-Val-Leu-Pro-Asp-Asn-Phe-Pro-Arg-Tyr) (MW: 1817.9)

SP-52633-1 Insulin B (9-23) (AA: Ser-His-Leu-Val-Glu-Ala-Leu-Tyr-Leu-Val-Cys-Gly-Glu-Arg-Gly) (MW: 1645.90)

SP-88238-1 Proinsulin C - Peptide (31 - 63), porcine (AA: Arg-Arg-Glu-Ala-Glu-Asn-Pro-Gln-Ala-Gly-Ala-Val-Glu-Leu-Gly-Gly-Gly-Leu-Gly-Gly-Leu-Gln-Ala-Leu-Ala-Leu-Glu-Gly-Pro-Pro-Gln-Lys-Arg) (MW: 3340.78)

SP-88239-1 Proinsulin C - peptide (55 - 89), human (AA: Arg-Arg-Glu-Ala-Glu-Asp-Leu-Gln-Val-Gly-Gln-Val-Glu-Leu-Gly-Gly-Gly-Pro-Gly-Ala-Gly-Ser-Leu-Gln-Pro-Leu-Ala-Leu-Glu-Gly-Ser-Leu-Gln-Lys-Arg) (MW: 3617.07)

SP-89545-1 Tyr-Proinsulin C-Peptide (55-89) (human) (AA: Tyr-Arg-Arg-Glu-Ala-Glu-Asp-Leu-Gln-Val-Gly-Gln-Val-Glu-Leu-Gly-Gly-Gly-Pro-Gly-Ala-Gly-Ser-Leu-Gln-Pro-Leu-Ala-Leu-Glu-Gly-Ser-Leu-Gln-Lys-Arg) (MW: 3780.24)

Antibodies and Insulin, C-peptide, GLP and insulin receptors,

ELISA Kits for human Insulin, C-peptide, IGFBP-1

SP-51895-1 120403A

Alpha Diagnostic Intl Inc., 4638 N Loop 1604 West, San Antonio, TX 78249, USA; **Email**: techsupport@4adi.com
☎ (800) 786-5777; (210) 561-9515; **Fax**: (210) 561-9544; **Web Site**: www.4adi.com