ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# **SP-88246-1**

Description: Calcitonin N-Terminal Flanking Peptide, human; N – Procalcitonin

Sequence: AA: Ala-Pro-Phe-Arg-Ser-Ala-Leu-Glu-Ser-Ser-Pro-Ala-Asp-Pro-Ala-Thr-Leu-Ser-Glu-Asp-Glu-Ala-Arg-Leu-Leu-Leu-Ala-Ala-Leu-Val-Gln-Asp-Tyr-Val-Gln-Met-Lys-Ala-Ser-Glu-Leu-Glu-Gln-Glu-Gln-Glu-Arg-Glu-Gly-Ser-Ser-Leu-Asp-Ser-Pro-Arg-Ser) (MW: 6220.84)

Size: 1 mg

Purity: >95%

Store: Desiccated at -20oC

Calcitonin (also known as thyrocalcitonin) is a 32-amino acid linear polypeptide hormone that is produced in humans primarily by the parafollicular cells (also known as C-cells) of the thyroid, and in many other animals in the ultimopharyngeal body. It acts to reduce blood calcium (Ca2+), opposing the effects of parathyroid hormone (PTH).

Calcitonin has been found in fish, reptiles, birds, and mammals. Its importance in humans has not been as well established as its importance in other animals, as its function is usually not significant in the regulation of normal calcium homeostasis. It belongs to the calcitonin-like protein family.

Calcitonin is formed by the proteolytic cleavage of a larger prepropeptide, which is the product of the CALC1 gene (CALCA). The CALC1 gene belongs to a superfamily of related protein hormone precursors including islet amyloid precursor protein, calcitonin gene-related peptide, and the precursor of adrenomedullin.

The hormone participates in calcium (Ca2+) and phosphorus metabolism. In many ways, calcitonin counteracts parathyroid hormone (PTH).

More specifically, calcitonin lowers blood Ca2+ levels in two ways:

Major effect: Inhibits osteoclast activity in bones
Minor effect: Inhibits renal tubular cell reabsorption of Ca2+ and phosphate, allowing them to be excreted in the urine.

This product is for in vitro research use only.

Related items available from ADI

Catalog# Description

RP-608 Recombinant (E.Coli, >95% His-tag) Human Procalcitonin (3-116aa)

RP-608-EN Recombinant (E.Coli, >95%, No tag) Human Procalcitonin (1-116 aa)

SP-52229-1 Calcitonin, Human [Cys-Gly-Asn-Leu-Ser-Thr-Cys-Met-Leu-Gly-Thr-Tyr-Gln-Asp-Phe-Asn-Lys-Phe-His-Thr-Phe-Pro-Gln-Thr-Ala-Ile-Gly-Val-Gly-Ala-Pro-NH2(Disulfide bridge Cys1-Cys7); MW: 3417.87]

SP-55279-1 Calcitonin Gene Related Peptide (CGRP 8-37), Human [H-Val-Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-Gly-Val-Val-Lys0Asn-Asn-Phe-Val-Pro-THr-Asn-Val-Gly-Ser-Lys-Ala-Phe-NH2; MW: 3125.65]

SP-55280-1 Calcitonin Gene Related Peptide (CGRP, 8-37), Rat [H-Val-Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-Gly-Val-Val-Lys-Asp-Asn-Phe-Val-Pro-Thr-Asn-Val-Gly-Ser-Glu-Ala-Phe-NH2; MW: 3127.58]

SP-55430-1 Calcitonin, Eel [H-Cys-Ser-Asn-Ley-Ser-Thr-Cys-Val-Ley-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asp-Val-Gly-Ala-Gly-Thr-Pro-NH2 (Cys1-Cys7); MW: 3414.94]

SP-55431-1 Calcitonin, Chicken [H-Cys-Ala-Ser-Leu-Ser-Thr-Cys-Val-Leu-Gly-Lys-Leu-Ser0Gln-Glu-Leu-His-Lys-Leu-Gln-Thr0Tyr-Pro-Arg-Thr-Asp-Val-Gly-Ala-Gly-Thr-Pro-NH2 (Cys1-Cys7); MW: 3371.91]

SP-55432-1 Calcitonin, Rat [H-Cys-Gly-Asn-Leu-Ser-Thr-Cys-Met-Leu-Gly-Thr-Tyr-Gln-Asp-Leu-Asn-Lys-Phe-His-Thr-Phe-Pro-Gln-Thr-Ser-Ile-Gly-Val-Gly-Pro-NH2 (Cys1-Cys7); MW: 3399.9]

SP-88245-1 Calcitonin C-terminal Adjacent Peptide, rat (AA: Asp-Met-Ala-Lys-Asp-Leu-Glu-Thr-Asn-His-His-Pro-Tyr-Phe-Gly-Asn) (MW: 1889.05)

SP-88246-1 Calcitonin N-Terminal Flanking Peptide, human; N – Procalcitonin

SP-88247-1 "Calcitonin, porcine (AA: Cys-Ser-Asn-Leu-Ser-Thr-Cys-Val-Leu-Ser-Ala-Tyr-Trp-Arg-Asn-Leu-Asn-Asn-Phe-His-Arg-Phe-Ser-Gly-Met-Gly-Phe-Gly-Pro-Glu-Thr-Pro-NH2
(Disulfide bridge: Cys1-Cys7)) (MW: 3604.10)"

SP-89393-1 Biotin-(Cys1, Lys(biotinyl)18)-Calcitonin (human) (AA:Biotin-Cys-Gly-Asn-Leu-Ser-Thr-Cys-Met-Leu-Gly-Thr-Tyr-Thr-Gln-Asp-Phe-Asn-Lys(bio)-Phe-His-Thr-Phe-Pro-Gln-Thr-Ala-Ile-Gly-Val-Gly-Ala-Pro-NH2 (Disulfide bridge: Cys1-Cys6)) (MW: 3870.52)

SP-89394-1 Biotin-Calcitonin (salmon I) (AA: Biotin-Cys-Ser-Asn-Leu-Ser-Thr-Cys-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Thr-Gly-Ser-Gly-Thr-Pro-NH2 (Disulfide bridge: Cys1-Cys7)) (MW: 3658.22)

SP-89395-1 Calcitonin (8-32) (salmon I) (AA: Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Thr-Gly-Ser-Gly-Thr-Pro-NH2) (MW: 2725.12)

SP-89396-1 Ac-[Asn30, Tyr32]-Calcitonin (8-32) (salmon I) [Ac-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Thr-Gly-Ser-Asn-Thr-Tyr-NH2 (MW: 2890.27)]

SP-88246-1 161208SV

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