



LKT Laboratories, Inc.

Calcitonin, chicken

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Product Information

Product ID C0146
CAS No. 9007-12-9
Chemical Name

Synonym

Formula $C_{145}H_{240}N_{42}O_{46}S_2$
Formula Wt. 3371.91
Melting Point
Purity $\geq 95\%$
Solubility Soluble in water.

Store Temp -20°C
Ship Temp Ambient

Description Calcitonin is an endogenous neuropeptide that exhibits pro-oncogenic, anti-osteoarthritic, and anti-resorptive activities. Calcitonin induces activation of NF- κ B, upregulating expression and activity of fibronectin, MMP-1, MMP-2, and MMP-9 and increasing cell growth in osteosarcoma cells. When administered clinically, calcitonin increases serum NO and urinary CTX-II levels, improving medial femoral condyle osteoarthritis. Calcitonin also inhibits SDCP-induced apoptosis of osteoclasts and increases bone formation and volume.

H-Cys-Ala-Ser-Leu-Ser-Thr-
Cys-Val-Leu-Gly-Lys-Leu-Ser-
Gln-Glu-Leu-His-Lys-Leu-Gln-
Thr-Tyr-Pro-Arg-Thr-Asp-Val-
Gly-Ala-Gly-Thr-Pro-NH₂
(Disulfide Bridge Cys1-Cys7)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C0146	0.5 mg	\$189.00
C0146	1 mg	\$321.40
C0146	2.5 mg	\$567.00

References Tsagaraki I, Phenekos C, Tsilibary E, et al. Calcitonin-induced NF- κ B activation up-regulates fibronectin expression in MG63 osteosarcoma cells. *Anticancer Res.* 2013 Nov;33(11):4901-6. PMID: 24222127.

Armagan O, Serin DK, Calisir C, et al. Inhalation therapy of calcitonin relieves osteoarthritis of the knee. *J Korean Med Sci.* 2012 Nov;27(11):1405-10. PMID: 23166425.

Kuo YJ, Tsuang FY, Sun JS, et al. Calcitonin inhibits SDCP-induced osteoclast apoptosis and increases its efficacy in a rat model of osteoporosis. *PLoS One.* 2012;7(7):e40272. PMID: 22792258.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.