



LKT Laboratories, Inc.

Calcitonin, human

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Product Information

Product ID C0148

CAS No. 21215-62-3

Chemical Name H-Cys-Gly-Asn-Leu-Ser-Thr-Cys-Met-Leu-Gly-Thr-Tyr-Thr-Gln-Asp-Phe-Asn-Lys-Phe-His-Thr-Phe-Pro-Gln-Thr-Ala-Ile-Gly-Val-Gly-Ala-Pro-NH₂

Synonym Calcitonin M, human C carcinoma, hCT, Thyrocalcitonin

Formula C₁₄₅H₂₄₀N₄₄O₄₈S₂

Formula Wt. 3417.88

Melting Point

Purity ≥95%

Solubility Soluble in 5% acetic acid.

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-κB, 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 SCDP-induced apoptosis of osteoclasts and increases bone formation and volume.

Cys-Gly-Asn-Leu-Ser-Thr-Cys-Met-Leu-Gly-Thr-Tyr-Thr-Gln-Asp-Phe-Asn-Lys-Phe-His-Thr-Phe-Pro-Gln-Thr-Ala-Ile-Gly-Val-Gly-Ala-Pro-NH₂
(Disulfide bridge Cys1-Cys7)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C0148	0.5 mg	\$170.10
C0148	1 mg	\$290.00
C0148	2.5 mg	\$513.60

References Tsagaraki I, Phenekos C, Tsilibary E, et al. Calcitonin-induced NF-κB 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.