



LKT Laboratories, Inc.

Calcitonin, eel

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Product Information

Product ID C0140

CAS No. 57014-02-5

Chemical Name

Synonym

Formula C₁₄₆H₂₄₁N₄₃O₄₇S₂

Formula Wt. 3414.94

Melting Point 220°C. (dec)

Purity ≥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-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.

H-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-Asp-Val-Gly-Ala-Gly-Thr-Pro-NH₂

(Disulfide Bridge Cys1-Cys7)

Bulk quantities available upon request

Product ID Size

C0140 1 mg

C0140 2 mg

C0140 5 mg

References Tsagarakis 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.