



LKT Laboratories, Inc.

Calcitonin, rat

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Product Information

Product ID C0153

CAS No.

Chemical Name

Synonym

Formula $C_{148}H_{228}N_{40}O_{46}S_3$

Formula Wt. 3399.9

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

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C0153	0.5 mg	\$210.20
C0153	1 mg	\$358.50
C0153	2.5 mg	\$634.80

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.