

Synthetic human decarboxylated osteocalcin

Cat. No. Osteocalcin-189H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	(Glu ^{17,21,24})-Osteocalcin (1-49) (human) trifluoroacetate salt H-Tyr-Leu-Tyr-Gln-Trp-Leu-Gly-Ala-Pro-Val-Pro-Tyr-Pro-Asp-Pro-Leu-Glu-Pro-Arg-Arg-Glu-Val-Cys-Glu-Leu-Asn-Pro-Asp-Cys-Asp-Glu-Leu-Ala-Asp-His-Ile-Gly-Phe-Gln-Glu-Ala-Tyr-Arg-Arg-Phe-Tyr-Gly-Pro-Val-OH trifluoroacetate salt (Disulfide bond)
Species	Human
ProteinLength	1-49 aa
Description	The peptide hormone osteocalcin is involved not only in bone formation, it also plays an important role in glucose metabolism and could regulate testosterone. In mice, only the completely decarboxylated form of the peptide shows the latter hormonal activities, whereas in humans, osteocalcin, partially decarboxylated osteocalcins, and the uncarboxylated peptide seem to be involved. Generally, obese individuals have been shown to have lower osteocalcin(s) levels than non-obese controls, and type 2 diabetic individuals have lower plasma osteocalcin than non-diabetic individuals
Form	White powder
Molecular Mass	5797.49
AA Sequence	YLYQWLGA ¹ VPYPDPLEPRREVCELNPDCDELADHIGFQEAYRRFYGPV
Purity	95.4%

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Storage	Store at -20 ± 5 centigrade.
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Reconstitution	Soluble in DMF at 1 mg/ml
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