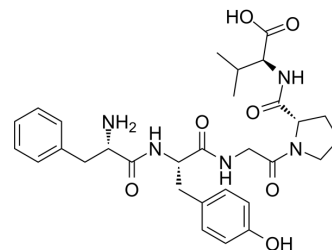


Bone Gla Protein (45-49)

Cat. No.:	HY-P3735
CAS No.:	85679-70-5
Molecular Formula:	C ₃₀ H ₃₉ N ₅ O ₇
Molecular Weight:	581.66
Sequence Shortening:	FYGPV
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bone Gla Protein (45-49) is the 45-49 fragment of gamma-carboxyglutamic acid (GLA)-containing protein from bone (BGP, osteocalcin), which has chemotactic activity in vitro for a number of cells which are found adjacent to endosteal bone surfaces in vivo ^[1] .
In Vitro	Bovine bone Gla protein (BGP) (1 nM-10 μM) exerts chemotactic activity of (0.1 and 1 μM) cultured human breast cancer cells (MDA-MB-231 cells), (1 nM-1 μM) human peripheral blood monocytes, and (1-10 μM) rat osteosarcoma cells with osteoblast-like characteristics ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mundy GR, et al. Chemotactic activity of the gamma-carboxyglutamic acid containing protein in bone. *Calcif Tissue Int.* 1983;35(2):164-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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