

Active Recombinant Human MGP Protein, His tagged

Cat. No. MGP-12H Lot. No. (See product label)

SPECIFICATION

Product Overview	MGP Protein, Human (His) is the recombinant human-derived MGP, expressed by E. coli, with C-6*His labeled tag.
Species	Human
Source	E.coli
ProteinLength	20-96 aa
Description	This gene encodes a member of the osteocalcin/matrix Gla family of proteins. The encoded vitamin K-dependent protein is secreted by chondrocytes and vascular smooth muscle cells, and functions as a physiological inhibitor of ectopic tissue calcification. Carboxylation status of the encoded protein is associated with calcification of the vasculature in human patients with cardiovascular disease and calcification of the synovial membranes in osteoarthritis patients. Mutations in this gene cause Keutel syndrome in human patients, which is characterized by abnormal cartilage calcification, peripheral pulmonary stenosis and facial hypoplasia.
Form	Lyophilized from a 0.22 µm filtered solution of PBS, 6-8% Trehalose, pH 7.4.
Bio-activity	Measured in a cell proliferation assay using HT-29 cells. The ED50 for this effect is 61.07 ng/mL, corresponding to a specific activity is 1.637×10 ⁴ Unit/mg.
Molecular Mass	13 kDa

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AASequence	YESHESMESYELNPFINRRNANTFISPQQRWRAKVQERIRERSKPVHELNREACDD YRLCERYAMVYGYNAAYNRYF
Endotoxin	< 1 EU/μg by LAL
Storage	Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.

GENE INFORMATION

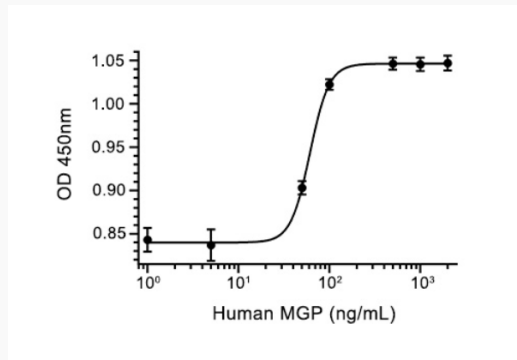
Gene Name	MGP matrix Gla protein [Homo sapiens (human)]
Official Symbol	MGP
Synonyms	MGP; matrix Gla protein; cell growth-inhibiting gene 36 protein; NTI; GIG36; MGLAP
Gene ID	4256
mRNA Refseq	NM_000900
Protein Refseq	NP_000891
MIM	154870
UniProt ID	P08493

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Bioactivity



Measured in a cell proliferation assay using HT-29 cells. The ED50 for this effect is 61.07 ng/mL, corresponding to a specific activity is 1.637×10^4 Unit/mg.

SDS-PAGE and WB

