

Recombinant Mouse Mgp Protein, His-tagged

Cat. No. MGP-95M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Mgp(Tyr20~Tyr104) fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Tyr20~Tyr104
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. This protein also inhibits angiogenesis. Mice lacking a functional copy of this gene exhibit impaired differentiation of endothelial cells, reduced stature, and calcification and rupture of the vasculature leading to premature death.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	16.2kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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If bio-activity of the protein is needed, please check active protein

Stability

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

GENE INFORMATION

Gene Name Mgp matrix Gla protein [*Mus musculus*]

Official Symbol Mgp

Synonyms MGP; matrix Gla protein; matrix gamma-carboxyglutamate (gla) protein; Mglap;

Gene ID 17313

mRNA Refseq NM_008597

Protein Refseq NP_032623

UniProt ID P19788

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