

Active Recombinant Human MEPE, His-tagged

Cat. No. MEPE-5688H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MEPE (Pro18-Asp525 & Phe20-Asp525 & Gln21-Asp525), fused with a C-terminal 10-His tag, was expressed in NS0 cells.
Species	Human
Source	Mammalian Cells
ProteinLength	18-525;20-525;21-525 a.a.
Description	Matrix extracellular phosphoglycoprotein (Osteoblast/osteocyte factor 45) is a protein that in humans is encoded by the MEPE gene. A conserved RGD motif is found in this protein, and this is potentially involved in integrin recognition.
Predicted N Terminal	Pro18, Phe20 & Gln21
Form	Lyophilized from a 0.2 µ filtered solution in PBS.
Bio-activity	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. rhMEPE, immobilized at 2 µg/mL (100 µL/well), can induce more than 60% of ATDC5 cell adhesion.
Molecular Mass	Predicted Molecular Mass: 57 kDa SDS-PAGE: 82 kDa, reducing conditions
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Storage Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Reconstitution Reconstitute at 100 µg/mL in sterile PBS.

GENE INFORMATION

Gene Name MEPE matrix extracellular phosphoglycoprotein [Homo sapiens (human)]

Official Symbol MEPE

Synonyms MEPE; OF45; matrix extracellular phosphoglycoprotein; osteoblast/osteocyte factor 45; matrix, extracellular phosphoglycoprotein with ASARM motif (bone)

Gene ID 56955

mRNA Refseq NM_001184694

Protein Refseq NP_001171623

MIM 605912

UniProt ID Q9NQ76

Chromosome Location 4q21.1

Function extracellular matrix structural constituent; protein binding

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