

Active Recombinant Human SPP1 protein, His-tagged

Cat. No. SPP1-3854H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPP1 protein, His-tagged(NP_000573.1)(17-300 aa), fused with His tag, was expressed in NS0.
Species	Human
Source	NS0
ProteinLength	17-300 aa
Form	Lyophilized from 0.2 µm filtered concentrated solution in PBS, pH 7.2.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of HEK293 human embryonic kidney cells. When 1×10^5 cells/well are added to a rHuOsteopontin/OPN coated plate, cell adhesion is enhanced in a dosedependent manner after 1 hour incubation at 37 °C. The ED50 for this effect is typically 0.1-0.6 µg/mL. rHuThrombin proteolytic treatment of this rHuOsteopontin can increase HEK293 cell adhesion by about 5-fold.
Molecular Mass	Apparent molecular mass of 60-65 kDa in SDS-PAGE under reducing conditions, a single glycosylated polypeptide protein consisting of 290 amino acids including a C-terminal 6× polyhistidine tag.
Endotoxin	Less than 0.1 EU/g of rHuOsteopontin/OPN as determined by LAL method.
Purity	> 95 % by SDS-PAGE analyses.

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Storage Use a manual defrost freezer and 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 We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name SPP1 secreted phosphoprotein 1 [Homo sapiens]

Official Symbol SPP1

Synonyms SPP1; secreted phosphoprotein 1; BNSP, bone sialoprotein I , OPN, osteopontin; osteopontin; BSPI; early T lymphocyte activation 1; ETA 1; uropontin; nephropontin; osteopontin-C; osteopontin-D; SPP1/CALPHA1 fusion; bone sialoprotein 1; urinary stone protein; early T-lymphocyte activation 1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1); OPN; BNSP; ETA-1; MGC110940;

Gene ID 6696

mRNA Refseq NM_000582

Protein Refseq NP_000573

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MIM	166490
UniProt ID	P10451
SDS-PAGE	

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