

Osteopontin/OPN protein Active Protein | OPN active protein

Recombinant human Osteopontin/OPN protein

CATALOG # AAA48974	HOST E Coli	APPLICATIONS SDS-Page
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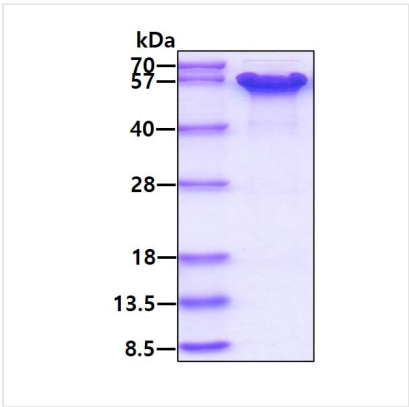
PRODUCT SYNONYMS

Osteopontin/OPN protein; Recombinant human Osteopontin/OPN protein; OPN; SPP-1; BNSP; BSPI; ETA-1; Bone sialoprotein 1; BSP I.Early T lymphocyte activation 1; ETA 1; ETA1; MGC110940; Nephropontin; Secreted phosphoprotein 1; SPP 1; SPP1; urinary stone protein; uropontin;; OPN active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol, 2mM EDTA
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	17-314aa
Sequence	RSMIPVKQ ADSGSSEKQ LYNKYPDAVA TWLNPDPSQK QNLLAPQNAV SSEETNDFKQ ETLPSKSNES HDHMDMDDE DDDDHVDSQD SIDSNDSDDV DDTDDSHQSD ESHHSDESDE LVTDFPTDLP ATEVFTPVPV TVDTYDGRGD SVVYGLRSKS KKFRRPDIQY PDATDEDITS HMESEELNGA YKAIPVAQDL NAPSDWDSRG KDSYETSQLD DQSAETHSHK QSRLYKRKAN DESNEHSDVI DSQELSKVSR EFHSHEFHSH EDMLVDPKS KEEDKHLKFR ISHELDSSASS EVN
Applicable Applications for OPN active protein	Bioactivity, SDS-PAGE
Antigen Species	Human
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of HEK293 human embryonic kidney cells. When cells are added to OPN coated plates 10ug/ml. This effect is more to 40%.
Tag Information	His-tag
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for OPN active protein	Description: Osteopontin (OPN), also known as Secreted phosphoprotein 1 (SPP1), is a human gene product which is conserved in other species. This protein is glycoprotein that was first identified in osteoblasts and plays an important role in bone remodeling, immune functions in fibroblasts, macrophages, and lymphocytes during inflammation and wound healing. Recombinant human Osteopontin protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
References	Jung SH, et al. On-chip dual enzyme activity assay to investigate regulation of the transamidase and kinase activities of transglutaminase 2. Anal Chim Acta. 2018 Oct 16;1027:92-100.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P10451
Molecular Weight	36.2 kDa (321aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/osteopontin-opn-protein/48974>