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Recombinant human Osteopontin/OPN protein

Catalog Number: ATGP0274

PRODUCT INFORMATION

Expression system

E.coli

Domain

17-314aa

UniProt No.

P10451

NCBI Accession No.

NP 001035147.1

Alternative Names

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,

PRODUCT SPECIFICATION

Molecular Weight

36.2 kDa (321aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol, 2mM EDTA

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

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.

BACKGROUND

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.



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Amino acid Sequence

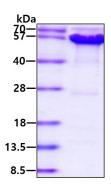
<MGSSHHHHHH SSGLVPRGSH RSM>IPVKQAD SGSSEEKQLY NKYPDAVATW LNPDPSQKQN LLAPQNAVSS EETNDFKQET LPSKSNESHD HMDDMDDEDD DDHVDSQDSI DSNDSDDVDD TDDSHQSDES HHSDESDELV TDFPTDLPAT EVFTPVVPTV DTYDGRGDSV VYGLRSKSKK FRRPDIQYPD ATDEDITSHM ESEELNGAYK AIPVAQDLNA PSDWDSRGKD SYETSQLDDQ SAETHSHKQS RLYKRKANDE SNEHSDVIDS QELSKVSREF HSHEFHSHED MLVVDPKSKE EDKHLKFRIS HELDSASSEV N

General References

Koh A., et al. (2007). Immunology. 122(4):466-75 Sodek J., et al. (2006). J Dent Res. 85(5):404-15

DATA

SDS-PAGE



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

