

AR09151PU-L

Recombinant human Osteopontin (SPP1) (aa 17-314), His-tagged

Alternate names:

BNSP, Bone Sialoprotein 1, Nephropontin, OPN, SPP-1, Secreted Phosphoprotein 1, Urinary Stone Protein, Uropontin

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P10451](#)

NCBI:

[NP_001035147](#)

GeneID:

[6696](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT, 10% glycerol, 2 mM EDTA

Description:

Recombinant human Osteopontin protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH RSMIPVKQAD SGSSEEKQLY NKYPDAVATW LNPDPSSQKQN
LLAPQNAVSS EETNDFKQET LPSKSNESH DMDMDDED DDHVDSDSI DSNDSDDDDD
TDDSHQSDS HHSDESDELV TDFPTDLPAT EVFTPVVPTV DTYDGRGDSV VYGLRSKSKK
FRRPDIQYPD ATDEDITSHM ESEELNGAYK AIPVAQDLNA PSDWDSRGKD SYETSQDDQ
SAETHSHKQS RLYKRKANDE SNEHSDVIDS QELSKVSREF HSHEFHSHED MLVVDPKSKE
EDKHLKFRIS HELDSASSEV N

Molecular weight: 36.2 kDa (321 aa)

Add. Information:

(Real molecular weight on SDS-PAGE will be shift up).

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Koh A., et al. (2007). Immunology. 122(4):466-75.

Sodek J., et al. (2006). J Dent Res. 85(5):404-15.

Pictures:

Recombinant human Osteopontin (17-314 aa), His-tagged: 15% SDS-PAGE (3 µg)

