

SPP1 Human

Description: Secreted Phosphoprotein-1 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 321 amino acids fragment (17-314) and having a total molecular mass of 36.2 kDa (molecular weight on SDS-PAGE will shift up). The SPP1 protein is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: CYP5-642

For research use only.

Synonyms: Secreted Phosphoprotein-1, OPN, BNSP, BSPI, ETA-1, MGC110940, SPP-1, Osteopontin, Bone sialoprotein 1, Urinary stone protein, Nephropontin, Uropontin, SPP1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH RSMIPVKQAD SGSSEKQLY
NKYPDAVATW LNPDPSSQKQN LLAPQNAVSS EETNDFKQET LPSKSNESHDMDDMDEDD
DDHVDSDSI DSNDSDVDVDD TDDSHQSDDES HHSDESDELV TDFPTDLPAT EVFPTVVPTV
DTYDGRGDSV VYGLRSKSKK FRRPDIQYPD ATDEDITSHM ESEELNGAYK AIPVAQLNA
PSDWDSRGKD SY

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

Osteopontin is supplied in 20mM Tris-HCl buffer pH-7.5, 1mM DTT, 2mM EDTA and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Osteopontin is a glycoprotein that was first identified in osteoblasts and is involved in bone remodeling, immune functions in fibroblasts, macrophages, and lymphocytes during inflammation and wound healing. SPP1 binds tightly to hydroxyapatite. SPP1 forms an integral part of the mineralized matrix. SPP1 is vital to cell-matrix interaction. Secreted Phosphoprotein-1 protects against cardiac ischemia-reperfusion injury via late preconditioning. Expression of both Osteopontin and CD44 in hepatocellular carcinoma is linked with advanced tumor stage and contributes to prognosis information. SPP1 is the most over-expressed gene in intrahepatic cholangiocarcinoma. Secreted Phosphoprotein-1 overexpression is related with interstitial lung diseases.

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