32-13667: SPP1 Mouse

Format :	The SPP1 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.
Alternative Name :	Secreted Phosphoprotein-1, OPN, BNSP, BSPI, ETA-1, MGC110940, SPP-1, Osteopontin, Bone sialoprotein 1, Urinary stone protein, Nephropontin, Uropontin, SPP1

Description

Source:HEK293 Cells.

Physical Appearance:Sterile Filtered colorless solution.

Biological ActivityMeasured by the ability of the immobilized protein to support the adhesion of HEK293 HEK cells when the cells are added to mouse SPP1 coated plates. The ED50 range is = 1.5 ug/ml.

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 Ostepontin 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.

SPP1 Mouse Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 287 amino acids (17-294 a.a) and having a molecular mass of 31.8kDa.SPP1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	20 µg / 5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Storage condition :	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.
Amino Acid :	DGSLPVKVTD SGSSEEKLYS LHPDPIATWL VPDPSQKQNL LAPQNAVSSE EKDDFKQETL PSNSNESHDH MDDDDDDDDD DGDHAESEDS VDSDESDESH HSDESDETVT ASTQADTFTP IVPTVDVPNG RGDSLAYGLR SKSRSFQVSD EQYPDATDED LTSHMKSGES KESLDVIPVA QLLSMPSDQD NNGKGSHESS QLDEPSLETH RLEHSKESQE SADQSDVIDS QASSKASLEH QSHKFHSHKD KLVLDPKSKE DDRYLKFRIS HELESSSSEV NHHHHHH