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32-1752: SPP1 HEK Recombinant Protein

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. Osteopontin Human Recombinant is a single, glycosylated, polypeptide chain produced in HEK293 cells, is a full length protein (amino acids 17-314) fused with a polyhistidine tag at the C-terminus, having a total calculated molecular mass of 34.5kDa (The actual molecular mass may be approximately 60-65kDa in SDS-PAGE under reducing conditions due to glycosylation).Osteopontin is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	50 µg
Purification :	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Content :	Osteopontin was lyophilized from a 0.2 mM filtered solution of 20mM PB and 150mM NaCl, pH 7.2.
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.Please avoid freeze thaw cycles.
Amino Acid :	IPVKQADSGSSEEKQLYNKYPDAVATWLNPDPSQKQNLLAPQNAVSSEETNDFKQETLPSKSNESHDHMDDM DDEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDESHHSDESDELVTDFPTDLPATEVFTPVVPTVDTYDGR GDSVVYGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDD QSAETHSHKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHEL DSASSEVNVDHHHHHH.

Application Note

It is recommended to reconstitute the lyophilized SPP1 in 1xPBS to a concentration no less than 100 Âµg/ml, which can then be further diluted to other aqueous solutions.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.