
Product Data Sheet

Product Name: SPP1 Mouse
 Cat. No.: GP26077
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Secreted Phosphoprotein-1, OPN, BNSP, BSPI, ETA-1, MGC110940, SPP-1, Osteopontin, Bone sialoprotein 1, Urinary stone protein, Nephropontin, Uropontin, SPP1		
Amino Acid Sequence	DGSLPVKVTD SGSSEEKLYS LHPDPIATWL VPDPSQKQNL LAPQNAVSSSE EKDDFKQETL PSNSNESH DH MDDDDDDDDDD DGDHAESEDS VDSDESDESH HSDESDETVT ASTQADTFTP IVPTVDVPNG RGD SLAYGLR SKRSRFQVSD EQYPDATDED LTSHMKSGES KESLDVIPVA QLLSMPDQD NNGKGSHESS QLDEPSLETH RLEHSKESQE SADQSDVIDS QASSKASLEH QSHKFHSHKD KLVLDPKSKE DDRYLKFRIS HELESSSSEV NHHHHHHH		
Formulation	The SPP1 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

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.

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of HEK293

Caution: Product has not been fully validated for medical applications. For research use only.

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HEK cells when the cells are added to mouse SPP1 coated plates. The ED50 range is \leq 1.5 ug/ml.

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.

Background

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.

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