
Product Data Sheet

Product Name: SPP1 Human
 Cat. No.: GP20929
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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	MGSSHHHHHH SGLVPRGSH RSMIPVKQAD SGSSEEKQLY NKYPDAVATW LNPDPSQKQN LLAPQNAVSS EETNDFKQET LPSKSNESHDMHDDMDEDD DDHVDSQDSI DSNDSDDVDD TDDSHQSDS HHSDESDELV TDFPTDLPAT EVFTPVVPTV DTYDGRGDSV VYGLRSKSKK FRRPDIQYPD ATDEDITSHM ESEELNGAYK AIPVAQDLNA PSDWDSRGKD SYETSQLDDQ SAETHSHKQS RLYKRKANDE SNEHSDVIDS QELSKVSREF HSHEFHSHED MLVVDPKSKE EDKHLKFRIS HELDSASSEV N.		
Formulation	Osteopontin is supplied in 20mM Tris-HCl buffer pH-7.5, 1mM DTT, 2mM EDTA 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

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 a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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