

Product Data Sheet

Product Name: SPP1 Human, HEK
 Cat. No.: GP20930
 Batch No.: 1

Product Data

Purity >98% Source
 Physical Appearance solid Shipping Condition

Synonyms Secreted Phosphoprotein-1; OPN; BNSP; BSPI; ETA-1; MGC110940; SPP-1; Osteopontin; Bone sialoprotein 1; Urinary stone protein; I

Amino Acid Sequence IPVKQADSGSSEEKQLYNKYPDVAVATWLNPDPSQKQKQKQNAVSSSEETNDFKQETLPSKSNESHDMDDMDEDDDDHVDSQDSIDSNSDDVD

Solubility It is recommended to reconstitute the lyophilized SPP1 in 1xPBS to a concentration no less than 100 µg/ml, which can then be further
 Formulation Osteopontin was lyophilized from a 0.2µM filtered solution of 20mM PB and 150mM NaCl, pH 7.2.

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 periods of time. Please avoid freeze thaw cycles.

Background

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.

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

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