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# SPP1 Mouse

*Osteopontin 1 Mouse Recombinant*
*GRF0377*

## Product Overview

| | |
|---|---|
| Name | SPP1 Mouse |
| **Description** | |
| Osteopontin 1 Mouse Recombinant | |
| Accession (Primary) | P10923 |
| **Synonyms** | |
| Secreted Phosphoprotein-1, OPN, BNSP, BSPI, ETA-1, MGC110940, SPP-1, Osteopontin, Bone sialoprotein 1, Urinary stone protein, Nephropontin, Uropontin, SPP1 | |
| **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 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. | |
| **Source** | |
| HEK293 Cells. | |
| **Physical Appearance** | |
| Sterile Filtered colorless solution. | |
| **Formulation** | |
| The SPP1 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol. | |
| **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. | |
| **Purity** | |
| Greater than 90.0% as determined by SDS-PAGE. | |
| **Amino acid sequence** | |
| DGSLPVKVTD SGSSEEKLYS LHPDPIATWL VPDPSQKQNL LAPQNAVSSE EKDDFKQETL PSNSNESHDH | |

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MDDDDDDDDD DGDHAESEDS VDSDESDESH HSDESDETVT ASTQADTFTP IVPTVDVPNG RGDSLAYGLR SKSRSFQVSD EQYPDATDED LTSHMKSGES KESLDVIPVA QLLSMPSDQD NNGKGSHESS QLDEPSLETH RLEHSKESQE SADQSDVIDS QASSKASLEH QSHKFHSHKD KLVLDPKSKE DDRYLKFRIS HELESSSSEV N HHHHHH

**Biological Activity**

Measured 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.

**Precautions**

SPP1 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P10923 )