

## Active Recombinant Mouse Spp1 Protein, His-tagged

Cat. No. Spp1-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Osteopontin (17-294aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	17-294aa
<b>Description</b>	Major non-collagenous bone protein that binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.
<b>Form</b>	Liquid
<b>Bio-activity</b>	Measured by the ability of the immobilized protein to support the adhesion of HEK293 human embryonic kidney cells. When cells are added to mouse SPP1 coated plates. The ED50 range $\leq 1.5 \mu\text{g/mL}$ .
<b>Molecular Mass</b>	31.8 kDa (287aa)
<b>AA Sequence</b>	LPVKVTDSGSSEEKLYSLHPDPIATWLVPDPSQKQNLLAPQNAVSSSEKDDFKQETL PSNSNESHDMDDDDDDDDGDDHAESVDSDESDESHHSDESDETVTASTQ ADTFTPIVPTVDVPNGRGDSLAYGLRSKRSRFQVSDEQYPDATDEDLTSHMKSGES

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KESLDVIPVAQLLSMPDQDNNGKGSHESSQLDEPSLETHRLEHSKESQESADQSD  
VIDSQASSKASLEHQSHKFHSHKDKLVLDPKSKEDDRYLKFRISHELESSSSEVN

**Purity** > 90% by SDS-PAGE

**Unit Definition** < 1 EU/μg of protein (determined by LAL method)

**Applications** SDS-PAGE, Bioactivity

**Storage** Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/mL (determined by Absorbance at 280nm)

**Storage Buffer** Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

## GENE INFORMATION

**Gene Name** [Spp1 secreted phosphoprotein 1 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Spp1](#)

**Synonyms** Spp1; secreted phosphoprotein 1; OP; 2AR; Bsp; Eta; Opn; Ric; BNSP; BSPI; Opnl; Apl-1; ETA-1; Spp-1; osteopontin; 44 kDa bone phosphoprotein; bone sialoprotein 1; calcium oxalate crystal growth inhibitor protein; early T-lymphocyte activation 1 protein; minopontin; osteopontin-like protein

**Gene ID** [20750](#)

**mRNA Refseq** [NM\\_009263](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Protein Refseq** NP\_033289

**UniProt ID** P10923

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA