

# Human Osteopontin/SPP1/ETA-1 (His Tag) recombinant protein



Catalog Number: 501981

## General Information

### Protein Construction

A DNA sequence encoding the pro form of human SPP1 (NP\_001035147.1) (Met 1-Asn 314) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by the ability of the immobilized protein to support the adhesion of HEK293 human embryonic kidney cells.

When cells are added to coated plates (2 µg/mL, 100 µL/well), approximately 60% will adhere for 1 hour incubation at 37°C.

### Purity

> 80 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Ile 17

### Molecular Mass

The recombinant human SPP1 consists of 309 amino acids after removal of the signal peptide and has a calculated molecular mass of 35 kDa. The apparent molecular mass of rh SPP1 is approximately 60-65 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

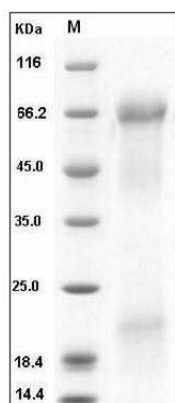
Store it under sterile conditions at -20°C to -80°C.

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human Osteopontin / SPP1 / ETA-1 Protein (His Tag) SDS-PAGE