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(2μg/mL, 100μL/well), approximately 60% will adhere for 1 hour incubation at 37℃.

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℃

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

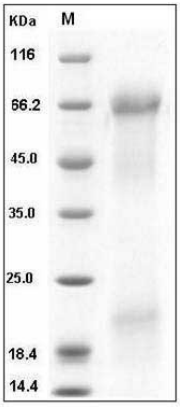
Storage

Store it under sterile conditions at -20℃ to -80℃. 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