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Recombinant Human Osteopontin/SPP-1 Protein

Catalog No.: RP00989 Recombinant 1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Human	6696	P10451-5

Tags
C-His

Synonyms
BNSP;BSPI;ETA-1;OPN;Osteopontin;SPP1

Product Information

Source	Purification
HEK293 cells	> 87% by SDS-PAGE.

Calculated MW	Observed MW
32.97 kDa	55 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

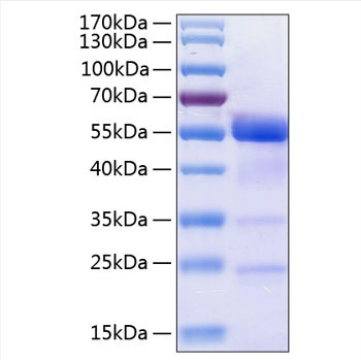
Basic Information

Description
Recombinant Human Osteopontin/SPP-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile17-Asn300) of human Osteopontin (Accession #NP_000573.1) fused with a 6×His tag at the C-terminus.

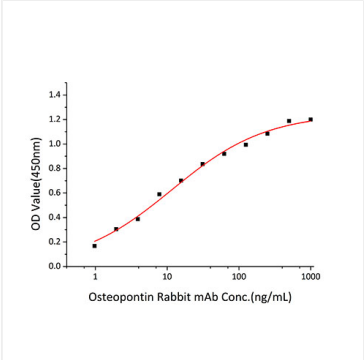
Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Human SPP1 Protein at 1 μg/mL (100 μL/well) can bind Osteopontin Rabbit mAb with a linear range of 0.976-11.58 ng/mL.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Osteopontin/SPP-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55 kDa.



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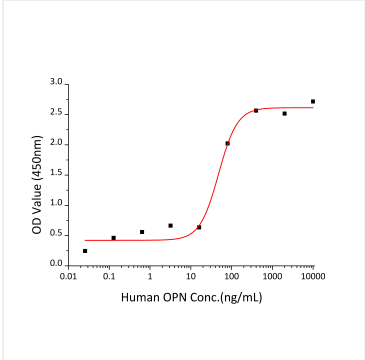

Recombinant Human Osteopontin/SPP-1 immobilized protein to support the adhesion of B16 cells.When 5×10^4 cells/well are added to a Recombinant Human (rh) Osteopontin/OPN coated plate, cell adhesion is enhanced in a dose-dependent manner after 1 hour incubation at 37 °C. The ED_{50} for this effect is 23.9-95.7 ng/mL.