Recombinant Mouse Osteopontin/SPP-1 Protein

Catalog No.: RP02806

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Sequence Information

Species	Gene ID
Mouse	20750
Swiss Prot	**Tags**
P10923	C-His

Synonyms

Spp1, Eta-1, Op, Spp-1, Osteopontin, 2AR, Bone sialoprotein 1, Calcium oxalate crystal growth inhibitor protein, Early T-lymphocyte activation 1 protein, Minopontin, Secreted phosphoprotein 1, SPP-1

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.
Calculated MW	**Observed MW**
31.59 kDa	45-60 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube 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.

Background

Secreted phosphoprotein 1 (SPP1) expression in TAMs isolated from lung adenocarcinoma tissues and PMA-treated THP-1 cells were measured. Macrophage polarization was identified by flow cytometric analysis. Cell migration and apoptosis were assessed by Transwell migration assays and flow cytometric analysis, respectively. SPP1 is highly expressed in tumor tissues and TAMs isolated from patients with an advanced TNM stage, and also in PMA-treated THP-1 cells.

Basic Information

Description

Recombinant Mouse Osteopontin/SPP-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu17-Asn294) of mouse Osteopontin/SPP1 (Accession #NP_033289.2) fused with a 6×His tag at the C-terminus.

Activity

Measured by the ability of the immobilized protein to support the adhesion of B16 cells.When 5×10^4 cells/well are added to a Recombinant Mouse (rm) Osteopontin/OPN coated plate, cell adhesion is enhanced in a dose-dependent manner after 1 hour

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

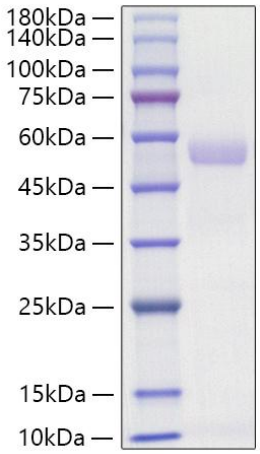
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

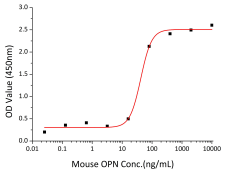
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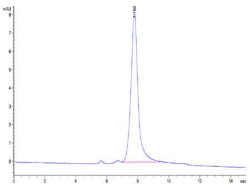
Validation Data



Recombinant Mouse Osteopontin/SPP-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



immobilized protein to support the adhesion of B16 cells.When 5×10^4 cells/well are added to a Recombinant Mouse (rm) Osteopontin/OPN coated plate, cell adhesion is enhanced in a dose-dependent manner after 1 hour incubation at 37 ℃. The ED_{50} for this effect is 21.0-83.9 ng/mL.



The purity of Mouse Osteopontin/SPP1 is greater than 95% as determined by SEC-HPLC.