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Biotinylated Recombinant Cynomolgus Mesothelin/MSLN Protein (Primary Amine Labeling)

Catalog No.: RP02749B Recombinant

Sequence Information

Species
Cynomolgus

Gene ID

Swiss Prot
A0A2K5TW94-1

Tags
C-His

Synonyms
MSLN; CAK1; Mesothelin; MPF; MPFSMRP; SMR

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW
33 kD

Observed MW
35-50 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.

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Background

Mesothelin, also known as MSLN, is a protein that in humans is encoded by the MSLN gene.Cloning studies showed that the mesothelin gene encodes a precursor protein that is processed to yield mesothelin which is attached to the cell membrane by a glycophosphatidylinositol linkage and a 31-kDa shed fragment named megakaryocyte-potentiating factor (MPF). Although it has been proposed that mesothelin may be involved in cell adhesion, its biological function is not known.A knockout mouse line that lacks mesothelin reproduces and develops normally.

Basic Information

Description
Biotinylated Recombinant Cynomolgus Mesothelin/MSLN Protein (Primary Amine Labeling) is produced by Expi293 expression system. The target protein is expressed with sequence (Asp296-Gly580) of Cynomolgus MSLN fused with a His tag at the C-terminal.

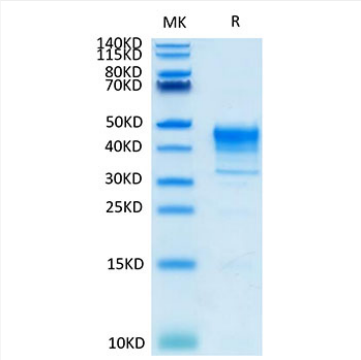
Bio-Activity

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.

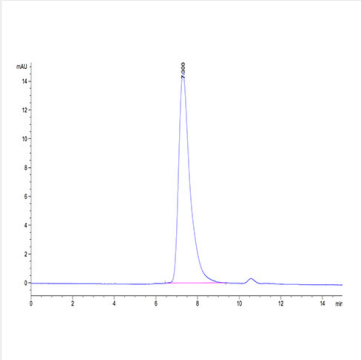
Storage
Store at -20℃. Store the lyophilized protein at -20℃ to -80℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

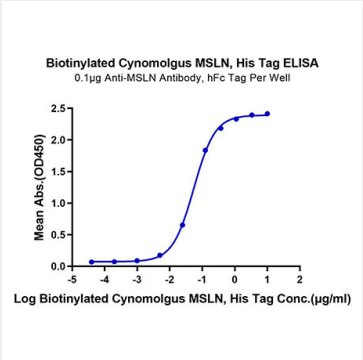
Validation Data



Biotinylated Recombinant Cynomolgus Mesothelin/MSLN Protein (Primary Amine Labeling) was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Cynomolgus MSLN is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-MSLN Antibody, hFc Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Cynomolgus MSLN, His Tag with the EC_{50} of 54.8ng/ml determined by ELISA.