Recombinant Human TNFSF9/4-1BB Ligand Trimer Protein

Catalog No.: RP00361

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Sequence Information

Species
Human

Gene ID
8744

Swiss Prot
P41273

Tags
N-His

Synonyms
41BB Ligand; 4-1BB Ligand; 4-1BBL; CD137L; TNFSF9

Product Information

Source
HEK293 cells

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

Calculated MW
61.8 kDa

Observed MW
61 kDa

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

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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.

Background

The 4-1BBL is the high affinity ligand of 4-1BB, also known as CD137L or TNFSF9. 4-1BB ligand (4-1BBL) is an inducible molecule present on several APC types, including B cells, macrophages and DCs.4-1BB:4-1BBL pathway seems to amplify the existing costimulatory signals, even if the engagement of 4-1BB in the presence of a strong TCR signaling can induce IL-2 production in a CD28-independent manner.

Basic Information

Description
Recombinant Human TNFSF9/4-1BB Ligand Trimer Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg71-Glu254) of Human TNFSF9/4-1BB Ligand Trimer (Accession #P41273) fused with a N-His tag at the N-terminus.

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℃

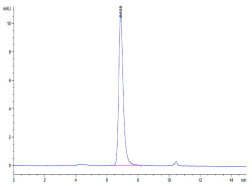
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

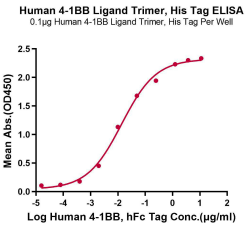
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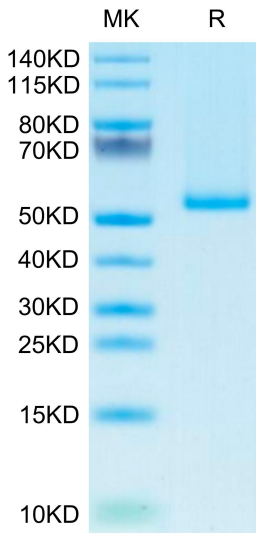
Validation Data



The purity of Human 4-1BB Ligand Trimer is greater than 95% as determined by SEC-HPLC.



Immobilized Human 4-1BB Ligand Trimer, His Tag at 1 μg/mL (100 μL/Well) on the plate. Dose response curve for Human 4-1BB, hFc Tag with the EC_{50} of 13.7ng/mL determined by ELISA.



Recombinant Human TNFSF9/4-1BB Ligand Trimer Protein was determined by Tris-Bis PAGE under reducing conditions.