

Recombinant Human TNFSF9/4-1BB Ligand Trimer Protein

Catalog No.: RP00361 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	8744	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 stabilizer (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

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.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

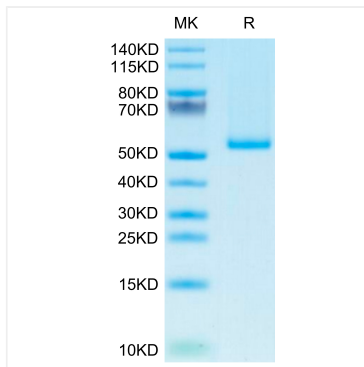
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

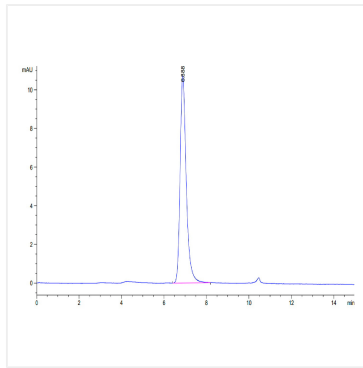
Operational Notes

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

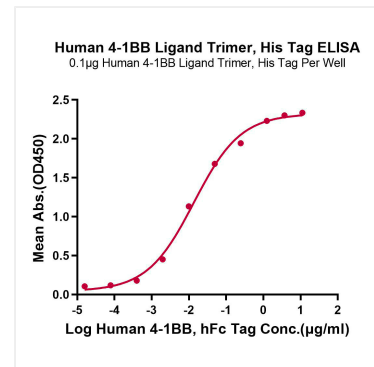
Validation Data



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



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 EC₅₀ of 13.7ng/mL determined by ELISA.