

# Biotinylated Recombinant Human TREM2 Protein

Catalog No.: RP00324B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	54209	Q9NZC2-1

### Tags

C-His&amp;Avi

### Synonyms

CD274; PDL1; PD-L1; PD-L1B7 homolog 1; B7-H; B7H1; B7-H1; PDCD1L1; PDCD1LG1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

### Endotoxin

&lt; 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

TREM-2 (Triggering Receptor Expressed on Myeloid cells-2) is a 35 kDa type I transmembrane member of the TREM family and Ig superfamily. Mature human TREM-2 consists of a 156 amino acid (aa) extracellular domain (ECD) with one V-type Ig-like domain, a 21 aa transmembrane (TM) domain, and a 35 aa cytoplasmic tail. TREM-2 forms a receptor signaling complex with TYROBP which mediates signaling and cell activation following ligand binding (PubMed:10799849). Acts as a receptor for amyloid-beta protein 42, a cleavage product of the amyloid-beta precursor protein APP, and mediates its uptake and degradation by microglia.

## Basic Information

### Description

Biotinylated Recombinant Human TREM2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His19-Ser174) of Human TREM2 (Accession #Q9NZC2-1) fused with a C-His&amp;Avi tag at the C-terminus.

### Bio-Activity

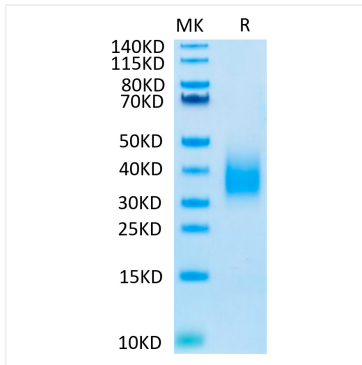
### Storage

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

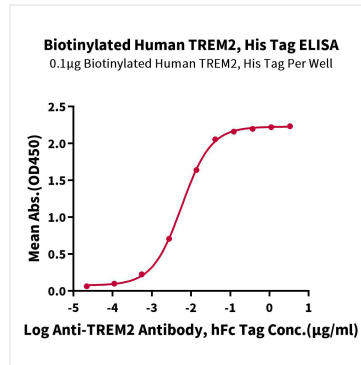
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data



Biotinylated Human TREM2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Immobilized Biotinylated Human TREM2, His Tag at 1 µg/mL (100 µL/Well) on streptavidin (5 µg/mL) precoated plate. Dose response curve for Anti-TREM2 Antibody, hFc Tag with the EC<sub>50</sub> of 5.8ng/mL determined by ELISA.