

TREM-2 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	triggering receptor expressed on myeloid cells 2;Trem2a;Trem2c;TREM-2;Trem2b
Protein Construction:	His19-Ser174
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NZC2-1
Molecular Weight:	18.5 kDa (Predicted); 28-40 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human TREM2, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-TREM2 Antibody, hFc Tag with the EC50 of 2.6 ng/ml determined by ELISA (QC Test). Human TREM2, His Tag captured on CM5 Chip via anti-his antibody can bind Human APOE3, hFc Tag with an affinity constant of 0.41 µM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

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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.

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