Data Sheet (Cat.No.TMPJ-00117)

TargetMol

TREM-2 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	Triggering receptor expressed on myeloid cells 2;Triggering receptor expressed on monocytes 2;TREM-2;TREM2
Protein Construction:	His19-Ser174
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NZC2
Molecular Weight:	50-65 KDa (reducing condition)
AA Sequence:	His19-Ser174

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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

TREM2 is a cell surface receptor of the immunoglobulin superfamily. TREM2 is a type-1 transmembrane protein that shuttles to the plasma membrane where it exerts its cell autonomous biological functions. TREM2 undergoes regulated intramembrane proteolysis (RIP). TREM2 is preferentially expressed in microglia and is functionally required for migration, cytokine release, phagocytosis, lipid sensing, ApoE binding, shielding of amyloid plaques, and microglia proliferation in the brian. Most of the functionally investigated mutations are located within the Ig-

like domain of TREM2.

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