

TLT-1/TREML1 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	UNQ1825/PRO3438;TLT1;Trem-like transcript 1;MGC119173;TLT-1;TREML1;PRO3438; dJ238O23.3;GLTL1825
Protein Construction:	Asp21-Gln175
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q8K558-2
Molecular Weight:	43.61 kDa (predicted). Due to glycosylation, the protein migrates to 50-55 kDa based on Tris-Bis PAGE result.

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:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

Triggering receptor expressed on myeloid cells (TREM)-like transcript-1 (TLT-1) is an immunoreceptor tyrosine-based inhibitory motif (ITIM)-bearing TREM family protein. Triggering receptor expressed on myeloid cells (TREM) like transcript-1 (TLT-1) is a membrane protein receptor found in alpha-granules of platelets and megakaryocytes.

Reference

Yoon SH, et al. TLT-1s, alternative transcripts of triggering receptor expressed on myeloid cell-like transcript-1 (TLT-1), Inhibits the triggering receptor expressed on myeloid cell-2 (TREM-2)-mediated signaling pathway during osteoclastogenesis. J Biol Chem. 2012 Aug 24;287(35):29620-6. doi: 10.1074/jbc.M112.351239. Epub 2012 Jul 3. PMID: 22761415; PMCID: PMC3436187.

Morales J, et al. Soluble TLT-1 modulates platelet-endothelial cell interactions and actin polymerization. Blood Coagul Fibrinolysis. 2010 Apr;21(3):229-36. doi: 10.1097/MBC.0b013e3283358116. PMID: 20093931; PMCID: PMC2886849.

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