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# **Recombinant Mouse TREM2 Protein (His Tag)**

Catalog No. PKSM041174

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

Synonyms Triggering Receptor Expressed on Myeloid Cells 2b;Triggering receptor expressed

on myeloid cells 2;TREM-2;Triggering receptor expressed on monocytes

2;Trem2;Trem2a;Trem2b;Trem2c;TREM-2b

**Species** Mouse

Expression Host

Sequence

Leu19-Pro168

Accession

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Leu19-Pro168

Q99NH8

17.3 kDa

25-40 kDa

C-His

**Bioactivity** Not validated for activity

#### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

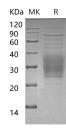
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

# Background

### For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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### **Elabscience Bionovation Inc.**



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Triggering receptor expressed on myeloid cells-2 (TREM-2) is a cell surface receptor primarily expressed on macrophages, osteoclasts, microglia and dendritic cells. TREM-2 is one member of the TREM family, inhibiting the releasing of inflammatory mediators, so it is an important in vivo anti-inflammatory receptor. TREM-2 consists of an 18 aa signal sequence, a 153 aa extracellular domain (ECD) with one V-type Ig-like domain, a 21 aa transmembrane (TM) domain, and a 35 aa cytoplasmic tail. A soluble form of TREM-2 (TREM-2b) created by alternate splicing diverges at aa 161. TREM-2 transduces intracellular signals through the adaptor DAP12. After binding of TREM-2 with ligand, the TREM-2/DAP12 (dead-cell-activated-receptor-associated protein)-mediated signal transduction pathway causes a series of intracellular protein tyrosine phosphorylation reactions and enzymatic reactions, which then activate the myeloid cells and participate T cell responses.

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