

## 32-8757: Recombinant Mouse Triggering Receptor Expressed on Myeloid Cells 2b/TREM-2b (C-Fc)

**Gene :** Trem2  
**Gene ID :** 83433  
**Uniprot ID :** Q99NH8

### Description

Source: Human Cells.  
MW :43.7kD.

Recombinant Mouse TREM-2b is produced by our Mammalian expression system and the target gene encoding Leu19-Pro168 is expressed with a Fc tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** LNTTVLQGMAGQSLRVSTYDALKHWGRRKAWCRQLGEEGPCQRVVSTHGVWLLAFLKKRNGS  
TVIADDTLAGTVTITLKNLQAGDAGLYQCQSLRGAEVLQKVLVEVLEDPLDDQDAGDLWVPEES  
SSFEGAQVEHSTSRNQETSFPVDDIEGRMDPEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDT  
LMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN  
GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW  
ESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSP  
GK

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.