

## Recombinant Human TREML2/TLT2 Protein (His Tag)

**Catalog Number:** PKSH031041

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

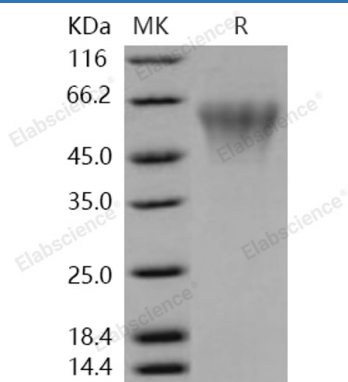
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human TREML2/TLT2 protein Met 1-Ser 268, with an C-terminal His
<b>Calculated MW</b>	28.5 kDa
<b>Observed MW</b>	55-60 kDa
<b>Accession</b>	NP_079083.2
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	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  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

Trem-like transcript 2 protein, also known as Triggering receptor expressed on myeloid cells-like protein 2, TREML2 and TLT2, is a single-pass type I membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. TREML2 is detected in cultured B cells, T cell leukemia and monocyte leukemia. TREML2 is expressed constitutively on CD8 T-cells and induced on CD4 T-cells after activation. TREML2 is a cell surface receptor that may play a role in the innate and adaptive immune response. TREML2 acts as a counter-receptor for CD276 and interaction with CD276 on T-cells enhances T-cell activation. Murine B7-H3 specifically bound to Triggering receptor expressed on myeloid cells (TREM)-like transcript 2 (TLT-2, TREML2). TREML2 was expressed on CD8(+) T cells constitutively and on activated CD4(+) T cells. Stimulation with B7-H3 transfectants preferentially up-regulated the proliferation and IFN-gamma production of CD8(+) T cells. Transduction of TREML2 into T cells resulted in enhanced IL-2 and IFN-gamma production via interactions with B7-H3. There maybe a direct interaction between B7-H3 and TREML2 that preferentially enhances CD8(+) T cell activation.