

# Recombinant Human TNFR1/TNFRSF1A Protein (Fc Tag)



Catalog Number:PKSH033160

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

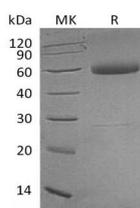
## Description

<b>Synonyms</b>	Tumor necrosis factor receptor superfamily member 1A;Tumor necrosis factor receptor 1;TNF-R1;Tumor necrosis factor receptor type I;TNF-RI;TNFR-I;TNFAR;TNFR1
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Leu30-Thr 211
<b>Accession</b>	P19438
<b>Calculated Molecular Weight</b>	47.2 kDa
<b>Observed molecular weight</b>	60 kDa
<b>Tag</b>	C-Fc
<b>Bioactivity</b>	Measured by its ability to induce NF- $\kappa$ B reporter activity in HEK293 human embryonic kidney cells. Recombinant Human TNF RI inhibits a constant dose of 0.5ng/mL of Recombinant TNF alpha. The IC50 for this effect is 2.7 ng/mL.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g 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 a 0.2 $\mu$ m 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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Tumor necrosis factor receptor superfamily member 1A (TNFRSF1A) is a member of the tumor necrosis factor receptor superfamily. TNFRSF1A is one of the major receptors for the tumor necrosis factor-alpha. It can activate the transcription factor NF- $\kappa$ B, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein

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BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor. Germline mutations of the extracellular domains of this receptor were found to be associated with the human genetic disorder called tumor necrosis factor associated periodic syndrome (TRAPS) or periodic fever syndrome.

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