

# Human TRAIL/TNFRSF10 Trimer Protein

Cat. No. TRL-HM101

## Description

<b>Source</b>	Recombinant Human TRAIL/TNFRSF10 Trimer Protein is expressed from HEK293 with His tag and Flag tag at the N-Terminus. It contains Gly118-Gly281.
<b>Accession</b>	P50591-1
<b>Molecular Weight</b>	The protein has a predicted MW of 60 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE >90% as determined by HPLC

## Formulation and Storage

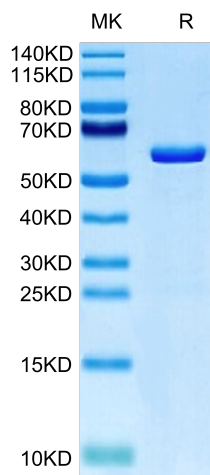
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL) is a member of the TNF superfamily that can initiate the apoptosis pathway by binding to its associated death receptors DR4 and DR5. The activation of the TRAIL pathway in inducing tumor-selective apoptosis leads to the development of TRAIL-based cancer therapies, which include recombinant forms of TRAIL, TRAIL receptor agonists, and other therapeutic agents.

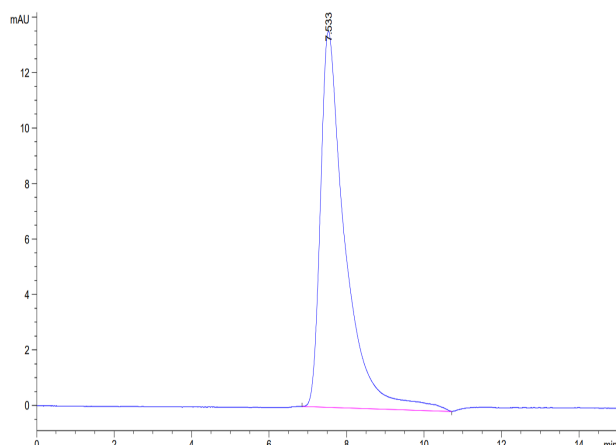
## Assay Data

### Bis-Tris PAGE



Human TRAIL Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



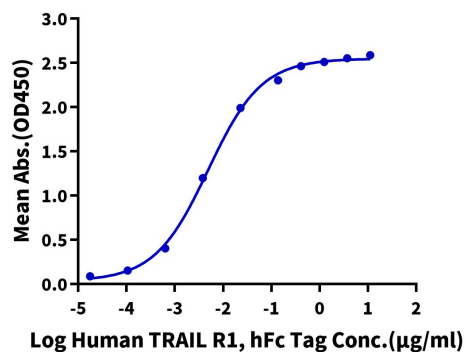
The purity of Human TRAIL Trimer is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human TRAIL Trimer, His Tag ELISA**

0.2µg Human TRAIL Trimer, His Tag Per Well



Immobilized Human TRAIL Trimer, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Human TRAIL R1, hFc Tag with the EC50 of 4.9 ng/ml determined by ELISA.