

# Human TRAIL R4/TNFRSF10D Protein

Cat. No. TRL-HM4R4

## Description

<b>Source</b>	Recombinant Human TRAIL R4/TNFRSF10D Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala56-His211.
<b>Accession</b>	Q9UBN6
<b>Molecular Weight</b>	The protein has a predicted MW of 19.4 kDa. Due to glycosylation, the protein migrates to 38-45 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by SEC-HPLC

## Formulation and Storage

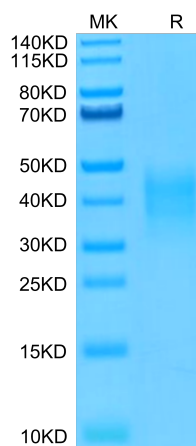
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein 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

TNF-related apoptosis inducing ligand (TRAIL) is a potential antitumor protein known for its ability to selectively eliminate various types of tumor cells without exerting toxic effects in normal cells and tissues. TRAIL-R2/DR5 as well as TRAIL-R3/DcR1 and TRAIL-R4/DcR2 were significantly higher expressed in advanced tumour stages.

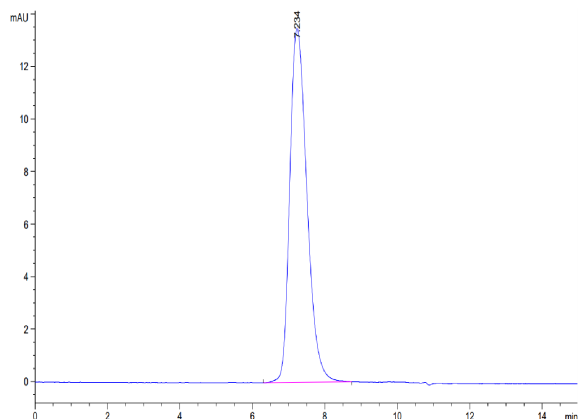
## Assay Data

### Bis-Tris PAGE



Human TRAIL R4 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

### SEC-HPLC



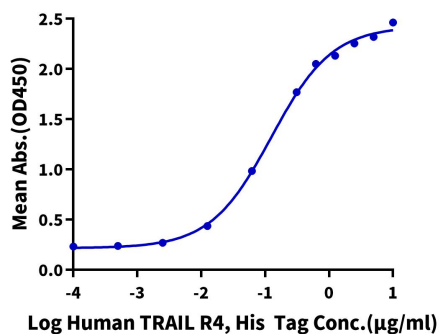
The purity of Human TRAIL R4 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

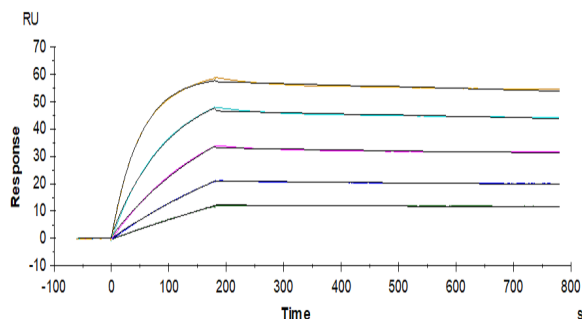
Human TRAIL R4, His Tag ELISA

0.5µg Human Trail, No Tag Per Well



Immobilized Human TRAIL, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human TRAIL R4, His Tag with the EC50 of 0.13µg/ml determined by ELISA (QC Test).

SPR Data



Human TRAIL R4, His Tag immobilized on CM5 Chip can bind Human TRAIL, No Tag with an affinity constant of 0.13 nM as determined in SPR assay (Biacore T200).