

# Human TRAIL/TNFRSF10 Protein

Cat. No. TRL-HE001

## Description

<b>Source</b>	Recombinant Human TRAIL/TNFRSF10 Protein is expressed from E.coli without tag. It contains Val114-Gly281.
<b>Accession</b>	NP_003801.1
<b>Molecular Weight</b>	The protein has a predicted MW of 19.6 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by SEC-HPLC

## Formulation and Storage

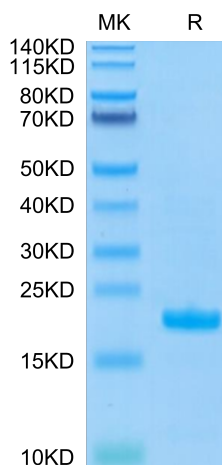
<b>Formulation</b>	Supplied as 0.22µm filtered solution in 50mM Tris, 300mM NaCl (pH 7.2).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

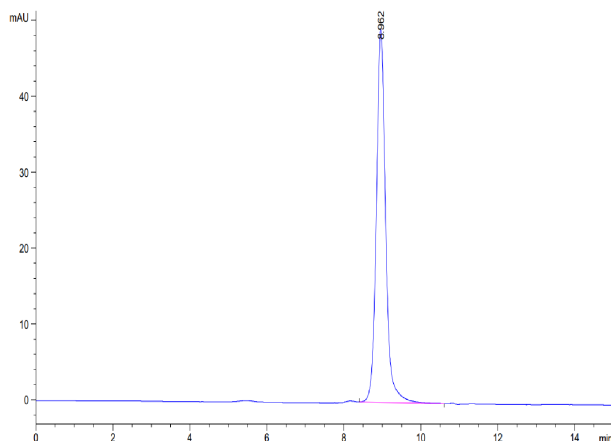
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC

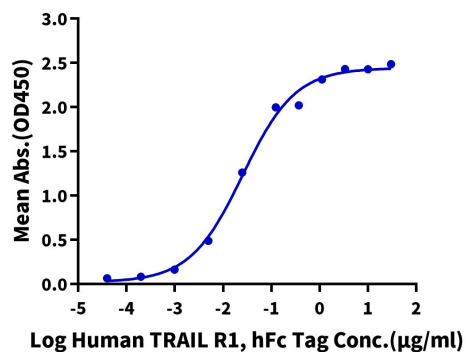


The purity of Human TRAIL is greater than 95% as determined by SEC-HPLC.

Assay Data

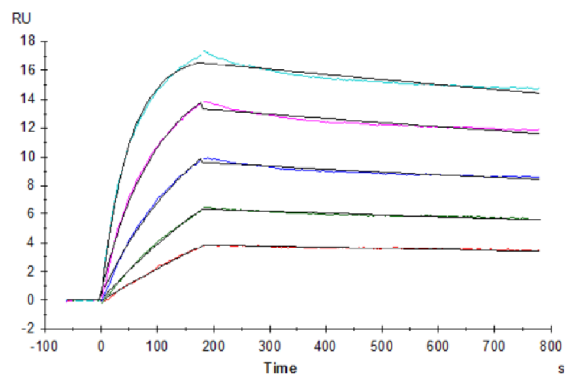
ELISA Data

**Human TRAIL, No Tag ELISA**  
0.2µg Human TRAIL, No Tag Per Well



Immobilized Human TRAIL at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TRAIL R1, hFc Tag with the EC50 of 25.4ng/ml determined by ELISA (QC Test).

SPR Data



Human DcR1, His Tag immobilized on CM5 Chip can bind Human TRAIL, No Tag with an affinity constant of 0.57 nM as determined in SPR assay (Biacore T200).