

Human TRAIL/TNFRSF10 Protein

Cat. No. TRL-HE001

Description

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

Formulation and Storage

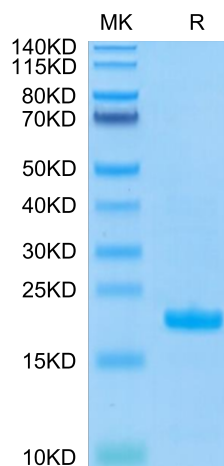
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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

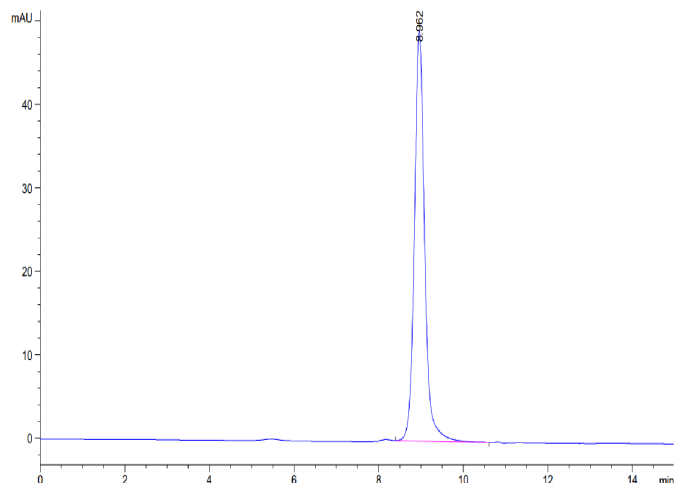
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

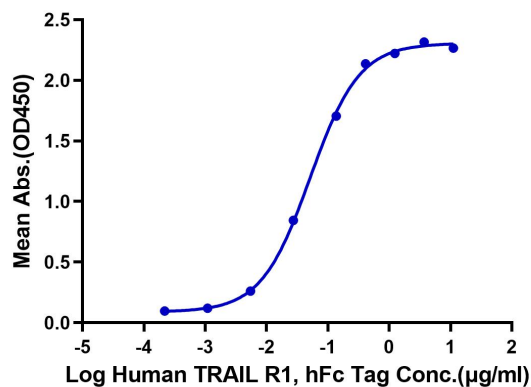


The purity of Human TRAIL is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human TRAIL, No Tag ELISA

0.2µg Human TRAIL, No Tag Per Well

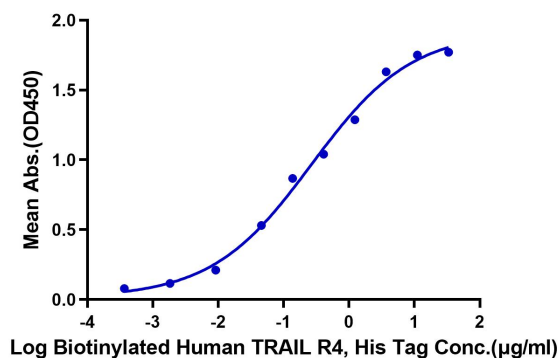


Immobilized Human TRAIL at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TRAIL R1, hFc Tag with the EC50 of 51.6ng/ml determined by ELISA.

ELISA Data

Human TRAIL, No Tag ELISA

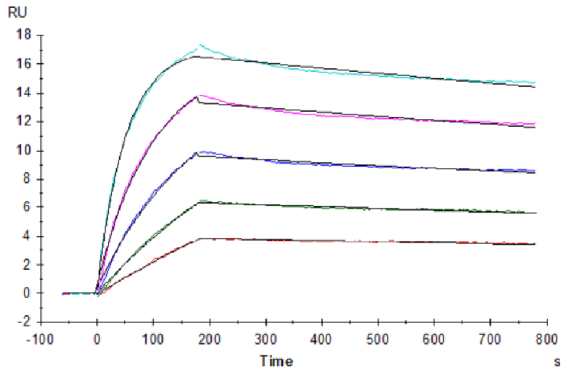
0.2µg Human TRAIL, No Tag Per Well



Immobilized Human TRAIL, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TRAIL R4, His Tag with the EC50 of 0.27µg/ml determined by ELISA.

SPR Data

Assay 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).