

Human TRAIL R1/DR4/TNFRSF10A Protein

Cat. No. TRL-HM2R1

Description

Source	Recombinant Human TRAIL R1/DR4/TNFRSF10A Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Pro34-Asn239.
Accession	O00220
Molecular Weight	The protein has a predicted MW of 48.8 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

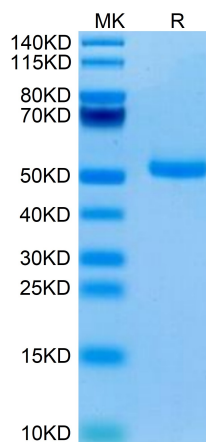
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -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) induces apoptosis selectively via its interaction with the death receptors TRAILR1/DR4 and TRAILR2/DR5 in a wide range of cancers, while sparing normal cells. Despite its tremendous potential for cancer therapeutics, the translation of TRAIL into the clinic has been confounded by TRAIL-resistant cancer populations.

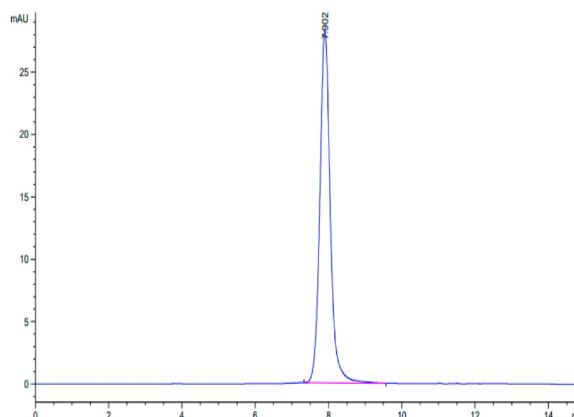
Assay Data

Bis-Tris PAGE



Human TRAIL R1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



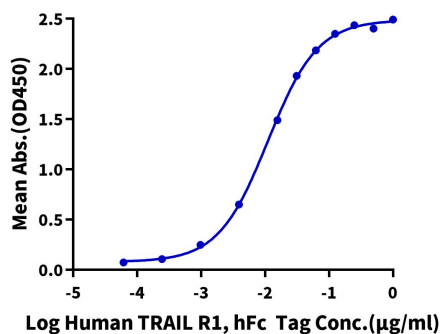
The purity of Human TRAIL R1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human TRAIL R1, hFc 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 R1, hFc Tag with the EC50 of 11.1ng/ml determined by ELISA.