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 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 SEC-HPLC

Formulation and Storage

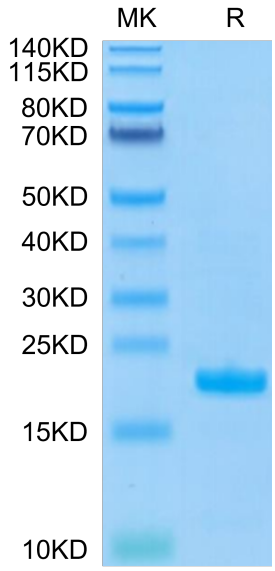
Formulation	Supplied as 0.22μm filtered solution in 50mM Tris, 300mM NaCl (pH 7.2).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

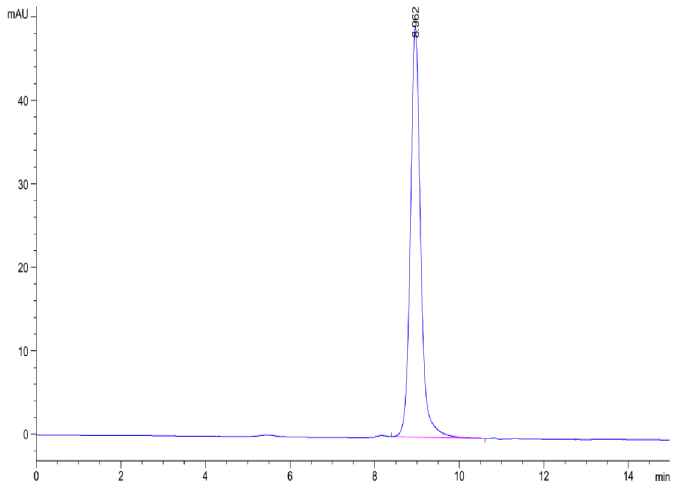
Assay Data

Bis-Tris PAGE



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

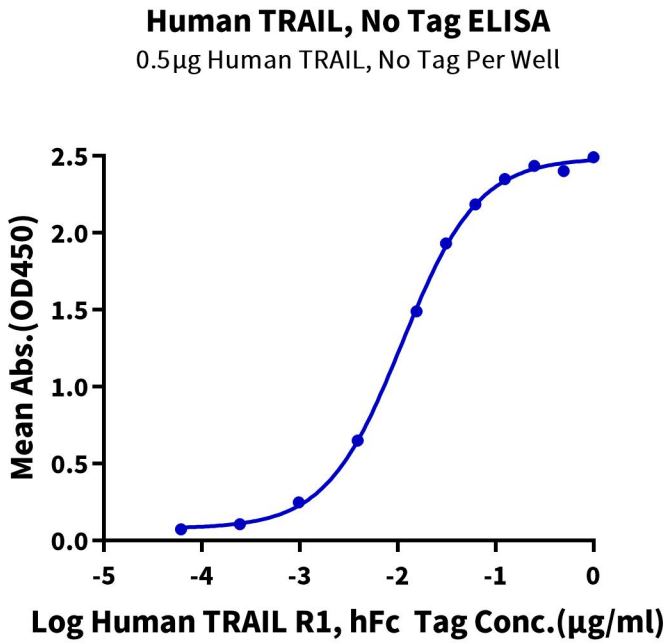
SEC-HPLC



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

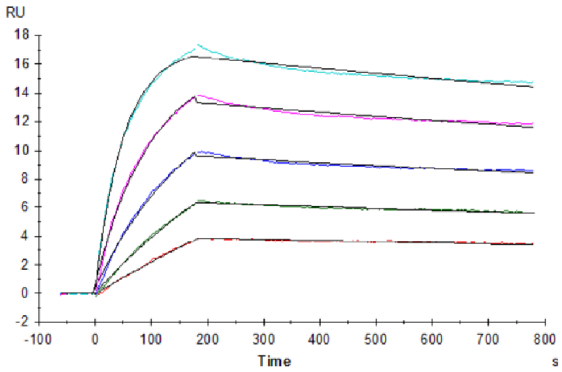
Assay Data

ELISA Data



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 (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).