

Human TRAIL R2/DR5/TNFRSF10B Protein

Cat. No. DR5-HM201

Description

Source	Recombinant Human TRAIL R2/DR5/TNFRSF10B Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ile56-Glu182.
Accession	O14763-1
Molecular Weight	The protein has a predicted MW of 41.1 kDa. Due to glycosylation, the protein migrates to 50-55 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

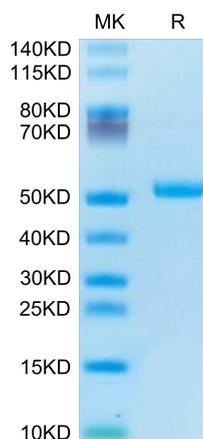
Formulation	Lyophilized from 0.22µm filtered solution in 50mM Tris, 100mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -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 minimize freeze-thaw cycles.

Background

DR5, also called TRAIL R2, TRICK 2, TNFRSF10B, and MK is a type 1 TNF R superfamily, membrane protein which is a receptor for TRAIL (APO2 ligand). DR5 is a receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis.

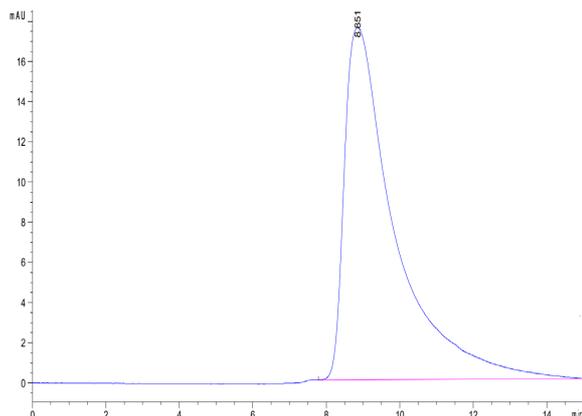
Assay Data

Tris-Bis PAGE



Human TRAIL R2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

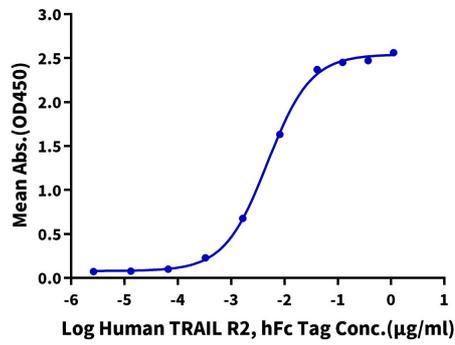


The purity of Human TRAIL R2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human TRAIL R2, hFc 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 Human TRAIL R2, hFc Tag with the EC50 of 4.8ng/ml determined by ELISA.