Mouse TRAIL R2/DR5/TNFRSF10B Protein

Cat. No. TRL-MM1R2

Description

Source	Recombinant Mouse TRAIL R2/DR5/TNFRSF10B Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Asn53-Lys180.
Accession	Q9QZM4-1
Molecular Weight	The protein has a predicted MW of 15.3 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on 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

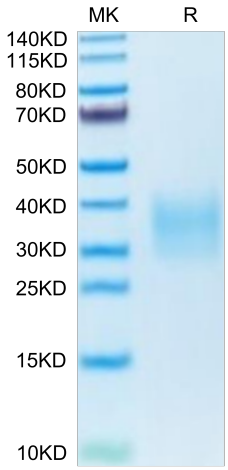
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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



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

SEC-HPLC

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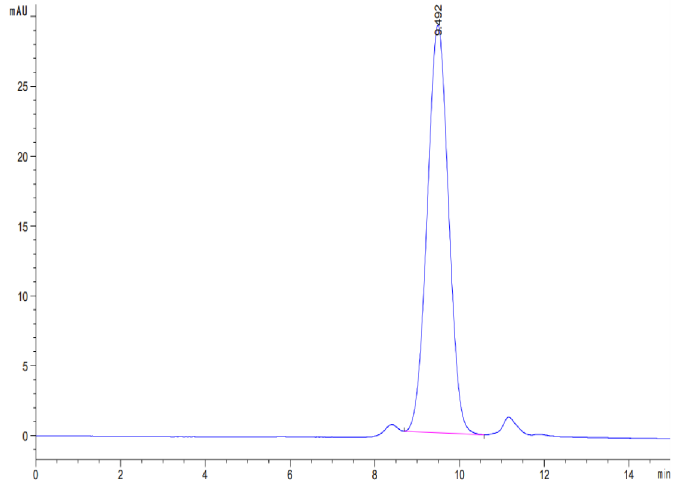
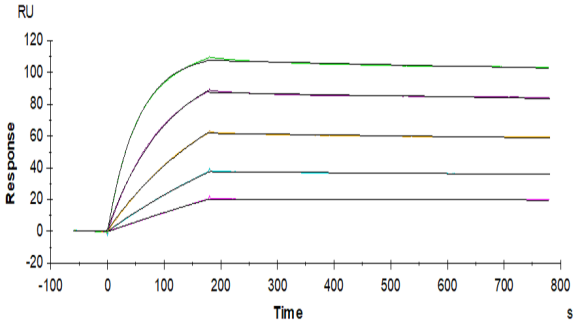


The purity of Mouse TRAIL R2 is greater than 95% as determined by SEC-HPLC.

SPR Data



Mouse TRAIL R2, His Tag immobilized on CM5 Chip can bind Human TRAIL, No Tag with an affinity constant of 0.43 nM as determined in SPR assay (Biacore T200).