# Human TRAIL R2/DR5/TNFRSF10B Protein

**Cat. No.** DR5-HM201

## Description

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|---|---|
| **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 Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per ug by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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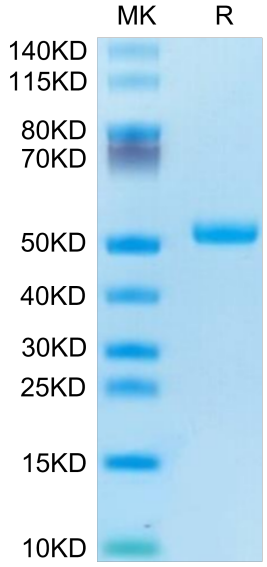
| **Formulation** | Lyophilized from 0.22μm filtered solution in 50mM Tris, 100mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

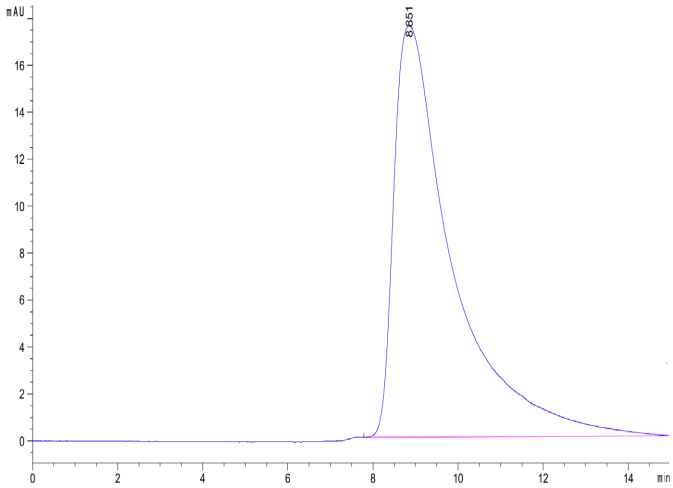
**Bis-Tris PAGE**




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

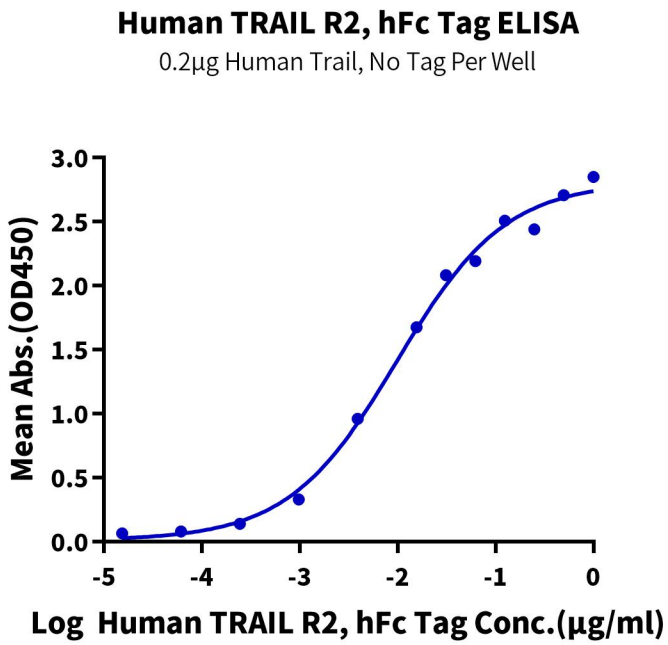
**SEC-HPLC**

## Assay Data




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

## ELISA Data




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 9.8ng/ml determined by ELISA (QC Test).