

Human TRAIL R1/DR4/TNFRSF10A Protein

Cat. No. TRL-HM4R1

Description

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|-------------------------|--|
| Source | Recombinant Human TRAIL R1/DR4/TNFRSF10A Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Pro34-Asn239. |
| Accession | O00220 |
| Molecular Weight | The protein has a predicted MW of 24.7 kDa. Due to glycosylation, the protein migrates to 25-30 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

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| 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 receptor superfamily member 10A (TNFRSF10A) is also known as TNF-related apoptosis-inducing ligand receptor 1 (TRAIL-R1), Death receptor 4 (DR4), CD261 and APO2, which belongs to TNF superfamily. The expression of apoptosis-inducing TRAIL-R1 and TRAIL-R2 and of the decoy receptors TRAIL-R3 and TRAIL-R4 was systematically studied in all developmental stages of peripheral B cells isolated from the blood and secondary lymphoid organs. Expression of TRAIL-Rs is modulated along development, with highest levels observed in germinal center B cells.

Assay Data

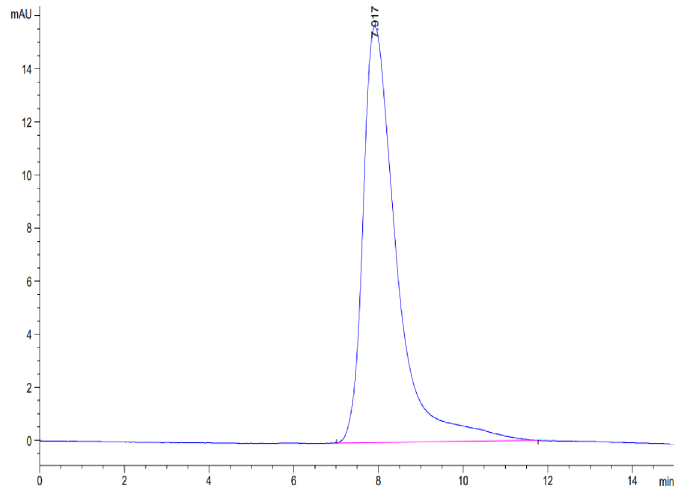
Bis-Tris PAGE



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

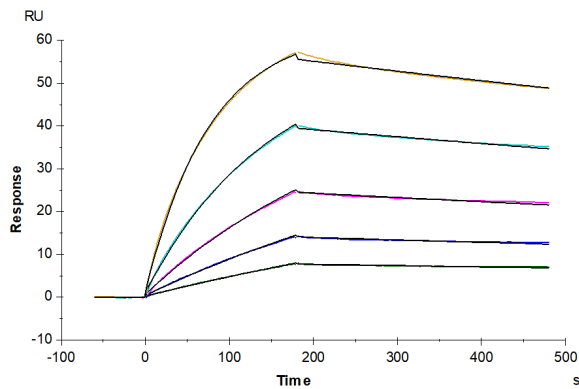
SEC-HPLC

Assay Data



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

SPR Data



Human TRAIL R1, His Tag captured on CM5 Chip via anti-his antibody can bind Human TRAIL, No Tag with an affinity constant of 1.02 nM as determined in SPR assay (Biacore T200).