

Synonym

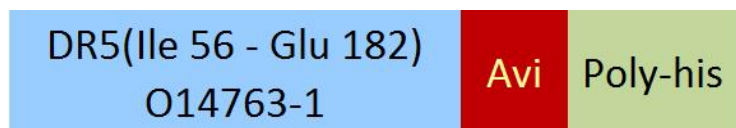
TNFRSF10B, TRAILR2, TRAIL-R2, CD262, DR5, KILLER, TRICK2, ZTNFR9, TRICKB

Source

Biotinylated Human TRAIL R2, Avitag, His Tag (TR2-H82E6) is expressed from human 293 cells (HEK293). It contains AA Ile 56 - Glu 182 (Accession # [O14763-1](#)).

Predicted N-terminus: Ile 56

Molecular Characterization



This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 16.9 kDa. The protein migrates as 22 kDa and 24 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Biotinylation

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Biotin:Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

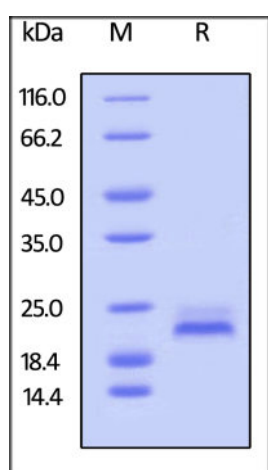
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

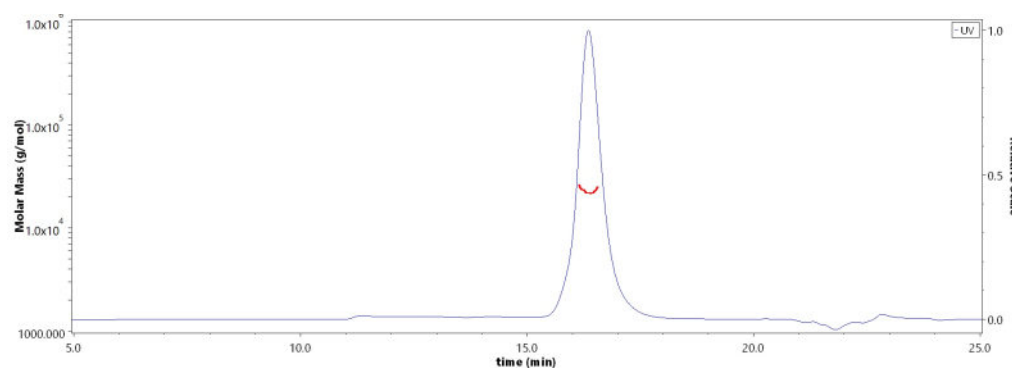
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human TRAIL R2, Avitag, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Biotinylated Human TRAIL R2, Avitag, His Tag (Cat. No. TR2-H82E6) is more than 90% and the molecular weight of this protein is around 20-30 kDa verified by SEC-MALS.

[Report](#)

Background

Tumor necrosis factor receptor superfamily member 10B (TNFRSF10B) is also known as TNF-related apoptosis-inducing ligand receptor 2 (TRAILR2), Death receptor 5 (DR5), CD262, KILLER, is a member of the TNF-receptor superfamily, and contains an intracellular death domain. TNFRSF10B / DR-5 is widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines. TRAILR2 / CD262 / DR5 is the receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD (a death domain containing adaptor protein) of TRAIL-R2 / TNFRSF10B 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. CD262 / DR5 Promotes the activation of NF-kappa-B. DR5 is essential for ER stress-induced apoptosis and is regulated by p53/TP53.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.