

Datasheet for ABIN3137686

TNFRSF10B Protein (AA 56-182) (His tag,AVI tag,Biotin)[Go to Product page](#)**2** Images

Overview

Quantity:	200 µg
Target:	TNFRSF10B
Protein Characteristics:	AA 56-182
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TNFRSF10B protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 56-182
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	High Quality Authentic Human TRAILR2 Protein • The production of this recombinant, biotinylated TRAILR2 protein is carried out using a proprietary expression platform. • As expression hosts, the human HEK293 cells have a variety of advantages compared to other cell types. • Most importantly, the proteins retain their authentic post-translational processing, which often translates into high bioactivity and stability. High Bioactivity & Detection Sensitivity • The bioactivity of biotinylated proteins is determined both by the structure of the protein

itself, and by the way how biotinylation is performed.

- For every single protein, multiple options of tags and biotinylation methods are tested and the products are evaluated in a variety of binding assays.
- Only those with the best performance are selected for production.

Low Batch-to-Batch Variation

- Products are routinely tested using rigorous quality control measures to ensure consistent performance.
- Newly produced products are subjected to side-by-side comparison with our internal standard in a variety of assays.
- Only those within an acceptable margin of difference are allowed to be released.

Purity: >90 % as determined by SDS-PAGE.

Endotoxin Level: Less than 1.0 EU per µg by the LAL method.

Target Details

Target: TNFRSF10B

Alternative Name: TRAILR2 ([TNFRSF10B Products](#))

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.

Molecular Weight: 16.9 kDa

NCBI Accession: [NP_003833](#)

Pathways: [p53 Signaling](#), [Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Comment: Ready-to-use AvitagTM biotinylated protein:

Application Details

The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

Handling

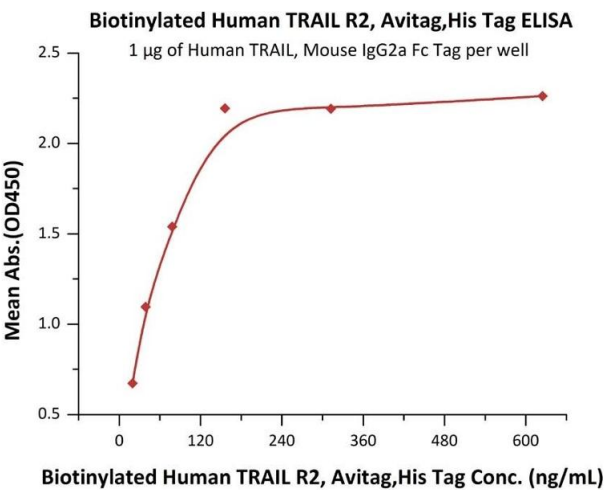
Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

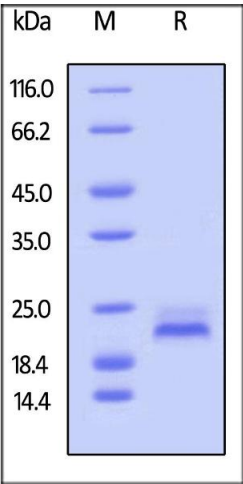
Storage: -20 °C

Images



ELISA

Image 1. Immobilized Human TRAIL, Mouse IgG2a Fc Tag (ABIN6933657,ABIN6938881) at 10 µg/mL (100 µL/well) can bind Biotinylated Human TRAIL R2, Avitag,His Tag (ABIN3137686,ABIN5674027) with a linear range of 2-78 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human TRAIL R2, Avitag,His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .