

Datasheet for ABIN6700756

**TRAIL Protein****2** Images[Go to Product page](#)

## Overview

Quantity:	10 µg
Target:	TRAIL (TNFSF10)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

## Product Details

Purpose:	Human TRAIL Recombinant Protein
Purification:	TRAIL purity was determined to be greater than 90% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	90,00%
Endotoxin Level:	Measured by LAL is typically $\leq 1$ EU/µg protein.
Biological Activity Comment:	The activity is determined by the ability to induce apoptotic cell death in TRAIL-sensitive RPMI-8226 cells and is typically 10-15 ng/mL.

## Target Details

Target:	TRAIL (TNFSF10)
Alternative Name:	TNFSF10 ( <a href="#">TNFSF10 Products</a> )
Background:	Synonyms: Apo2 Ligand (Apo2L), TL2, TNF-related apoptosis-inducing ligand, CD253 Background: TNF-Related Apoptosis-Inducing Ligand (TRAIL) is produced by a wide variety of

## Target Details

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cell types and is shown to be a cytotoxic protein that induces apoptosis in tumor cells through activation of the death receptors, DR4 and DR5. Human TRAIL is active on mouse cells. Recombinant human TRAIL is a non-glycosylated protein, containing the 168 amino acid extracellular portion of TRAIL that is homologous to TNF. It has a molecular weight of 19.5 kDa.

UniProt: [P50591](#)

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

## Application Details

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Application Notes: Other: User Optimized  
Application\_Note: TRAIL Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-TRAIL in immunological assays.

Comment: Suggested\_Applications: Cellular Assay  
Other\_Performance\_Data:

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution\_Buffer: Restore with deionized water (or equivalent)  
Reconstitution\_Volume: 10 µL (10-100 µL)

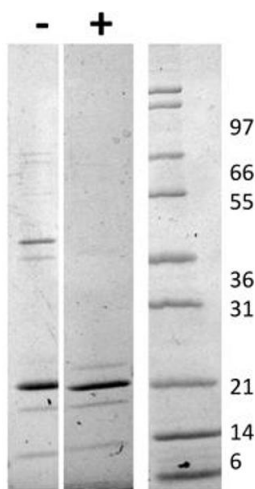
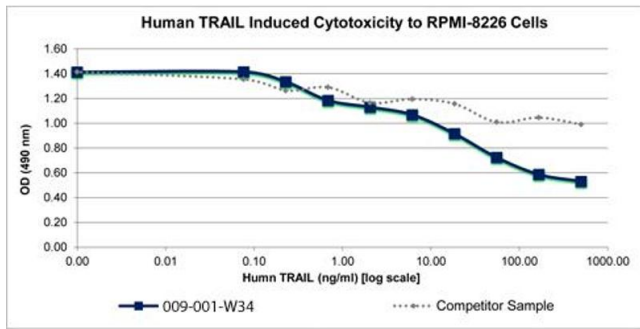
Buffer: Product is provided as lyophilized powder in 0.05M Sodium Chloride and 0.01M Sodium Phosphate, pH 7.5.

Preservative: Without preservative

Storage: 4 °C, -20 °C

Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date: 6 months



### SDS-PAGE

**Image 1.** SDS-PAGE of Human TRAIL Recombinant Protein Bioactivity of Human TRAIL Recombinant Protein. RPMI-8226 cells were cultured with 0 to 500 ng/mL Human TRAIL. Cell proliferation was measured after 5 days and the linear portion of the curve was used to calculate the ED50. The ED50 of Human TRAIL is 10-15 ng/mL. This value is comparable to the competitor sample, but there is no typically accepted range for this assay.

### SDS-PAGE

**Image 2.** SDS-PAGE of Human TRAIL Recombinant Protein SDS-PAGE of Human TRAIL Recombinant Protein. Lane 1: 1 µg Human TRAIL in non-reducing conditions. Lane 2: 1 µg Human TRAIL in reducing conditions (+). Lane 3: Molecular weight marker. Human TRAIL has a predicted MW of 19 kDa.