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Datasheet for 009-001-W34-0010

rHuman TRAIL Protein

Overview

Description:	Human TRAIL Recombinant Protein - 009-001-W34-0010
Item No.:	009-001-W34-0010
Size:	10 µg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	TNF-Related Apoptosis-Inducing Ligand (TRAIL) is produced by a wide variety of 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.
Synonyms:	Apo2 Ligand (Apo2L), TL2, TNF-related apoptosis-inducing ligand, CD253
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	TNFSF10
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - P50591

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
Application Note:	TRAIL Recombinant Protein ha been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-TRAIL in immunological assays. Product is provided as lyophilized powder in 0.05M Sodium Chloride and 0.01M Sodium Phosphate, pH 7.5.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: 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.

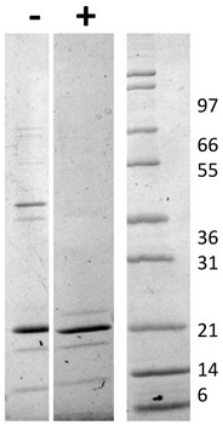
Formulation

Physical State:	Lyophilized
Buffer:	See application note.
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	10µl (10-100µl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

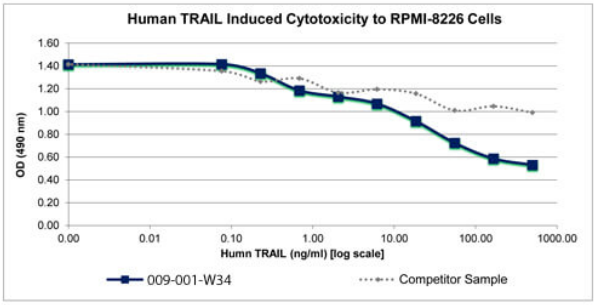
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results 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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

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.



SDS-PAGE

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 us 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.

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