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TNFSF10
Recombinant Human soluble TRAIL/APO2L

Catalog No.	CRT500A	**Quantity:**	10 µg
	CRT500B		50 µg
	CRT500C		1.0 mg

Alternate Names: TNF-related apoptosis-inducing ligand, Apo-2 ligand, Tumor necrosis factor ligand superfamily member 10, TNFSF10, CD253

Description: TNF-Related Apoptosis-Inducing Ligand (TRAIL) is a cytokine produced and secreted by most normal tissue cells. It is shown to be a cytotoxic protein that induces apoptosis in tumor cells through activation of the death receptors, DR4 and DR5. TRAIL and its receptors have been used as the targets of several anti-cancer therapeutics since the mid-1990s, such as Mapatumumab. However, these have not shown significant survival benefit. TRAIL has also been implicated as a pathogenic or protective factor in various pulmonary diseases, particularly pulmonary arterial hypertension.

Human TRAIL is active on mouse cells.

Gene ID: 8743

UniProt ID: P50591

Source: *E. coli*

Molecular Weight: 19.5 kDa (168 aa)

Formulation: Lyophilized from a sterile filtered solution of 10 mM sodium phosphate, 50 mM NaCl, pH 7.5

Purity: ≥ 90.0% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg by kinetic LAL analysis.

Biological Activity: Typical ED_{50} < 15 ng/ml, determined by the ability to induce apoptotic cell death in TRAIL-sensitive RPMI-8226 cells.

Amino Acid Sequence: MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYPDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS FFGAFLVG

Reconstitution: **Centrifuge vial prior to opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. **Do not vortex.** It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

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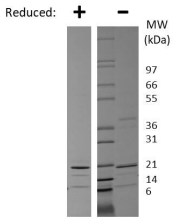
Storage & Stability: Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.

Avoid repeated freeze-thaw cycles.



Human TRAIL Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human TRAIL is predicted to have a MW of 19.5 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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