

TRAIL/Apo2L, Human Recombinant

Catalog No.	CRT500A CRT500B CRT500C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Tumor necrosis factor ligand superfamily member 10, TNF-related apoptosis-inducing ligand, Apo-2 ligand, CD253 antigen, TL2, TNFSF10		
Description:	Recombinant Human soluble TRAIL produced in <i>E. coli</i> is a single, non-glycosylated polypeptide chain containing 168 amino acids and having a MW = 19.6 kDa.		
Source:	<i>E. coli</i>		
Formulation:	Lyophilized from a concentrated, sterile filtered solution (1 mg/ml) containing 150 mM NaCl + 50 mM sodium phosphate, pH 7.4.		
Purity:	Greater than 97.0% as determined by analysis by RP-HPLC, anion-exchange FPLC and analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.		
Endotoxin Level:	Less than 0.1 ng/µg (1 EU/µg) of TRAIL.		
Dimers & Aggregates:	Less than 1% as determined by silver-stained SDS-PAGE gel analysis.		
Biological Activity:	Recombinant Human TRAIL is fully biologically active when compared to standard. The activity is determined by the ability to induce apoptotic cell death in TRAIL-sensitive U343MG cells. ED ₅₀ for this effect is 1-3 ng/ml.		
Amino Acid Sequence:	The sequence of the first five N-terminal amino acids is Arg-Glu-Arg-Gly-Pro.		
Reconstitution:	Centrifuge vial prior to opening. First add sterile water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Lyophilized samples are stable at room temperature for 2 weeks, but it is recommended to store them desiccated at -20°C to -80°C. Upon reconstitution, protein should be stored at 2-4°C for one week and for six months at -20°C to -80°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Avoid repeated freeze-thaw cycles.		
Protein Content:	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm. 2. Analysis by RP-HPLC, using a standard solution of TRAIL as a Reference Standard.		

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