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Product datasheet for TP728291S

Recombinant TRAIL (TNF-related apoptosis-inducing ligand), Human

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant TRAIL (TNF-related apoptosis-inducing ligand), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKGFYYI YSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKSARNSCWSKDAEYGLYSIYQGGIFELKENDRIF VSVTNEHLIDMDHEASFFGAFLVG with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 20.33 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:	Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED_{50} for this effect is 10.4-15.4 ng/mL.
Endotoxin:	<0.1 EU per 1 μg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 μg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P50591
Synonyms:	TNFSF10, Apo2 Ligand, TL2, Apo2L, CD253

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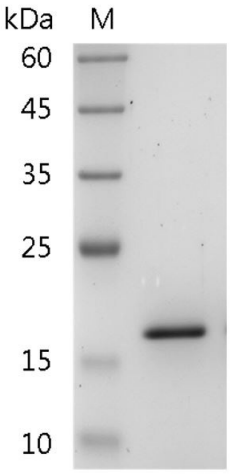
Summary: Tumor necrosis factor-associated apoptosis-inducing ligand (TRAIL) is a type II membrane protein of the tumor necrosis factor (TNF) family members, moreover, expressed in many adult tissues including the thymus, prostate, colon, ovary and lung. TRAIL is a 19kDa protein containing 281 residues. TRAIL to induce apoptosis in human breast carcinoma cells (MCF7) and human epitheloid carcinoma (HeLa) cell lines, by activate two death receptors of DR4 and DR5 or two decoy receptors DcR1 and DcR2.

Product images:



SDS- PAGE analysis of recombinant human TRAIL