

Active Recombinant Human TNFSF10 Protein, His-Tagged

Cat. No. TNFSF10-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF10 Protein, His-Tagged was expressed in Mouse myeloma cell line
Species	Human
Source	NS0
ProteinLength	95-281 aa
Description	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of this protein may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Lyophilized
Bio-activity	The apoptotic effect of soluble trimeric rhTRAIL can be enhanced by oligimerization of

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	the soluble rhTRAIL through the use of a cross-linking antibody Mouse Anti-polyHistidine Monoclonal Antibody. The ED50 for this effect is 1-4 ng/mL.
Molecular Mass	21 kDa (monomer)
N-terminal Sequence Analysis	Met
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -70 °C under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Reconstitution	Reconstitute at 20 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	TNFSF10 TNF superfamily member 10 [Homo sapiens (human)]
Synonyms	Apo-2 ligand; APO2L; Apo-2Ltumor necrosis factor (ligand) family, member 10; APO2Ltumor necrosis factor apoptosis-inducing ligand splice variant delta; CD253 antigen; CD253; Protein TRAIL; TL2; TNF-related apoptosis-inducing ligand; TNFSF10; TRAIL; TRAILTNF-related apoptosis inducing ligand TRAIL; tumor

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necrosis factor (ligand) superfamily, member 10; tumor necrosis factor ligand superfamily member 10

Gene ID	8743
mRNA Refseq	NM_001190942.2
Protein Refseq	NP_001177871.1
MIM	603598
UniProt ID	P50591

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