

# Active Recombinant Human TNFSF10 Protein, His-Tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNFSF10 Protein, His-Tagged was expressed in Mouse myeloma cell line
<b>Species</b>	Human
<b>Source</b>	NS0
<b>ProteinLength</b>	95-281 aa
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	The apoptotic effect of soluble trimeric rhTRAIL can be enhanced by oligimerization of

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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-2L tumor necrosis factor (ligand) family, member 10; APO2L tumor 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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