

Recombinant Human TNFSF10, His-tagged

Cat. No. TNFSF10-2154H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF10 was produced in E. coli. The extracellular domain of human TRAIL (aa 95-281) is fused at the N-terminus to a His-tag and a linker peptide.
Species	Human
Source	E.coli
Protein Length	95-281 a.a.
Description	TNF-related apoptosis-inducing ligand (TRAIL) is a ligand molecule which induces apoptosis. It is a type II transmembrane protein with homology to other members of the tumor necrosis factor family. In humans, the gene that encodes for TRAIL is located at chromosome 3q26. TRAIL binds to the death receptors, DR4 and DR5. The process of apoptosis is caspase-8-dependent. 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.
Purity	≥99% (SDS-PAGE). Affinity purified.
Formulation	Liquid. In 20mM HEPES, pH 7.9, containing 120mM sodium chloride, 0.01% Tween 20, 1% sucrose, 1mM DTT.
Concentration	0.5mg/ml.
Endotoxin Content	<0.004EU/g protein (LAL test; Bio Whittaker).

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Reconstitution	For a special storage and dilution buffer see KillerTRAIL™ Storage and Dilution Buffer.
Specificity	Binds to human and mouse TRAIL receptors and osteoprotegerin (OPG).
Application	Induces apoptosis in a concentration range of 10-100ng/ml. Note: This protein does not require a cross-linking enhancer for its potent biological activity. For cell lines that require extensive cross-linking of the TRAIL-Rs for killing (e.g. Jurkat) use SuperKillerTRAIL.
Specific Activity	ED50: 20ng/ml (BJAB cells).
Storage	Store at -80°C.

GENE INFORMATION

Gene Name	TNFSF10 tumor necrosis factor (ligand) superfamily, member 10 [Homo sapiens]
Synonyms	TNFSF10; tumor necrosis factor (ligand) superfamily, member 10; TRAIL; Apo-2L; TL2; CD253; Tumor necrosis factor ligand superfamily member 10; TNF-related apoptosis-inducing ligand; Protein TRAIL; Apo-2 ligand; APO2L; TNF-related apoptosis inducing ligand TRAIL; tumor necrosis factor (ligand) family, member 10; tumor necrosis factor apoptosis-inducing ligand splice variant delta; CD253 antigen; tumor necrosis factor apoptosis-inducing ligand splice variant delta
Gene ID	8743
mRNA Refseq	NM_003810
Protein Refseq	NP_003801

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MIM	603598
UniProt ID	P50591
Chromosome Location	3q26
Pathway	Apoptosis; Cytokine-cytokine receptor interaction; Natural killer cell mediated cytotoxicity; Apoptosis
Function	cytokine activity; metal ion binding; tumor necrosis factor receptor binding; zinc ion binding
PDB rendering based on 1d0g.	

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