

## Product datasheet for **TP723912**

### TRAIL (TNFSF10) (NM\_003810) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant extracellular domain protein of human tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), transcript variant 1, 100 ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MILRTSEETI STVQEKKQNI SPLVREERGPD RAAHITGTR GRSNTLSSPN SKNEKALGRK INSWESSRSG HSFLSNLHLR NGELVIHEKG FYYIYSQTYF RFQEEIKENT KNDKQMVQYI YKYTSYDPDI LLMKSARNSC WSKDAEYGLY SIYQGGIFEL KENDRIFVSV TNEHLIDMDH EASFFGAFLV G
Tag:	Tag Free
Predicted MW:	22 kDa
Concentration:	lot specific
Purity:	>98% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM HEPES, pH7.5, 150 mM NaCl, 5 mM DTT.
Bioactivity:	sTRAIL induce cell death to A172 human glioblastoma cell line.
Endotoxin:	Endotoxin <0.1 EU/ug by Endo-Safe LAL Assay
Storage:	Store at -80°C.
Stability:	Stable at -80°C for 12 months from date of receipt. Protein should be thawed on ice. Protein can be flash-frozen in liquid nitrogen and stored at -80°C.
RefSeq:	<a href="#">NP_003801</a>
Locus ID:	8743
UniProt ID:	<a href="#">P50591</a> , <a href="#">Q6IBA9</a>
RefSeq Size:	1953
Cytogenetics:	3q26.31
RefSeq ORF:	843
Synonyms:	Apo-2L; APO2L; CD253; TL2; TNLG6A; TRAIL



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**Summary:**

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. [provided by RefSeq, Jul 2010]

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Apoptosis, Cytokine-cytokine receptor interaction, Natural killer cell mediated cytotoxicity

**Product images:**