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# Product datasheet for TP723458

## TRAIL (TNFSF10) (NM_003810) Human Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Human tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), transcript variant 1. |
| **Species:** | Human |
| **Expression Host:** | E. coli |
| **Expression cDNA Clone or AA Sequence:** | MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYPDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS FFGAFLVG |
| **Tag:** | Tag Free |
| **Predicted MW:** | 19.6 kDa |
| **Concentration:** | lot specific |
| **Purity:** | >95% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer,100mM NaCl, pH 7.2 |
| **Bioactivity:** | Assay#1: Determined by its ability to induce apoptotic cell death in TRAIL-sensitive U343MG cells. The expected ED50 for this effect is 1.0-3.0 ng/ml. Assay#2: Measured by its ability to induce apoptosis in LN-18 cells (human glioblastoma cells). The expected ED50 for this effect is 0.8 - 2.0 ng/ml. |
| **Endotoxin:** | Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg) |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for at least 6 months from date of receipt under proper storage and handling conditions. |
| **RefSeq:** | NP_003801 |
| **Locus ID:** | 8743 |
| **UniProt ID:** | P50591, Q6IBA9 |
| **RefSeq Size:** | 1953 |
| **Cytogenetics:** | 3q26.31 |
| **RefSeq ORF:** | 843 |

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**Synonyms:** Apo-2L; APO2L; CD253; TL2; TNLG6A; TRAIL

**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: