

# Recombinant Human TRAIL Protein

Catalog Number:PKSH033422



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

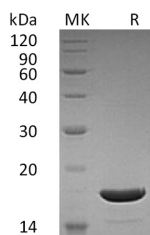
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Tumor Necrosis Factor Ligand Superfamily Member 10;Apo-2 Ligand;Apo-2L;TNF-Related Apoptosis-Inducing Ligand;Protein TRAIL;CD253;TNFSF10;APO2L;TRAIL   |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | E.coli   |
| <b>Sequence</b>                    | Arg115-Gly281  |
| <b>Accession</b>                   | P50591   |
| <b>Calculated Molecular Weight</b> | 20.3 kDa   |
| <b>Observed molecular weight</b>   | 18 kDa   |
| <b>Tag</b>                         | C-His  |
| <b>Bioactivity</b>                 | Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED <sub>50</sub> for this effect is 10.4-15.4 µg/mL. |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 98 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 0.1 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS,pH 8.0.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.           |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 98 % as determined by reducing SDS-PAGE.

## Background

Human TNFSF10 is a type II transmembrane protein with an intracellular N-terminus and a 'TNF homology domain' (THD) at the extracellular C terminus. TNFSF10 can interact with several distinct receptors. Two of these receptors that belongs to TNFR superfamily, DR4 (TRAIL-R1) and DR5 (TRAIL-R2/TRICK2), are plasma membrane proteins containing intracellular death domains essential for activating apoptosis. TNFSF10 is promising for cancer therapy

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because it is cytotoxic and activates apoptosis in the majority of malignant cells, but not in normal cells.

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