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## Datasheet for ABIN1097691 TRAIL Protein (AA 115-281)

### Overview

Quantity:	50 µg
Target:	TRAIL (TNFSF10)
Protein Characteristics:	AA 115-281
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

### Product Details

Purpose:	Recombinant Human TRAIL/TNFSF10/CD253 (Arg115-Gly281)
Sequence:	MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYPDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS FFGAFLVG
Characteristics:	Recombinant Human Tumor Necrosis Factor Ligand Superfamily Member 10/TNFSF10 produced by our E. coli expression system is composed with the C- terminal extracellular domain including THD. The target protein is expressed with sequence (R115-G281) of Human TNFSF10.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	TRAIL (TNFSF10)
Alternative Name:	trail-protein ( <a href="#">TNFSF10 Products</a> )
Background:	<p>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 because it is cytotoxic and activates apoptosis in the majority of malignant cells, but not in normal cells.</p> <p>Alternative Names: Tumor Necrosis Factor Ligand Superfamily Member 10, Apo-2 Ligand, Apo-2L, TNF-Related Apoptosis-Inducing Ligand, Protein TRAIL, CD253, TNFSF10, APO2L, TRAIL</p>
Molecular Weight:	19.5 kDa
UniProt:	<a href="#">P50591</a>
Pathways:	<a href="#">Apoptosis</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

## Application Details

Comment:	Biological activity: ED50 is less than 2 ng/ml as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D. Specific Activity of 5.0 x 10 <sup>6</sup> IU/mg.
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 150 mM NaCl.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>

## Handling

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Expiry Date: 3 months