

## Animal-Free TRAIL/TNFSF10 Protein, Human (His)

Cat. No.:	HY-P7306AF
Synonyms:	TNFSF10; Apo2 Ligand; TL2; Apo2L; CD253
Species:	Human
Source:	E. coli
Accession:	P50591 (V114-G281)
Gene ID:	8743
Molecular Weight:	Approximately 20.33 kDa

### PROPERTIES

AA Sequence	<pre> M R E R G P Q R V A   A H I T G T R G R S   N T L S S P N S K N   E K A L G R K I N S W E S S R S G H S F   L S N L H L R N G E   L V I H E K G F Y Y   I Y S Q T Y F R F Q E E I K E N T K N D   K Q M V Q Y I Y K Y   T S Y P D P I L L M   K S A R N S C W S K D A E Y G L Y S I Y   Q G G I F E L K E N   D R I F V S V T N E   H L I D M D H E A S F F G A F L V G           </pre>
Biological Activity	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 ng/mL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0, trehalose.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	TRAIL/TNFSF10 protein, a cytokine, binds to TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly TNFRSF11B/OPG. It induces apoptosis, a process that may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG, which lack the ability to induce apoptosis. Existing as a homotrimer, one TNFSF10 homotrimer interacts with three TNFSF10A monomers, and similarly, one TNFSF10 homotrimer interacts with three TNFSF10B monomers. This intricate interaction underlines the complexity of
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TRAIL/TNFSF10-mediated apoptotic signaling, showcasing its ability to engage multiple receptors and form distinct molecular configurations for its biological activity.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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