

TRAIL/TNFSF10 Protein, Human (N-His)

Cat. No.:	HY-P7306A
Synonyms:	rHuTRAIL/Apo2L; TNFSF10; CD253
Species:	Human
Source:	E. coli
Accession:	P50591 (V114-G281)
Gene ID:	8743
Molecular Weight:	Approximately 22 kDa

PROPERTIES

AA Sequence	<pre> V 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	Measured in a cytotoxicity assay using L929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED ₅₀ for this effect is 5.448 ng/mL, corresponding to a specific activity is 1.8355×10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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
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TNFSF10 homotrimer interacts with three TNFSF10B monomers. This intricate interaction underlines the complexity of TRAIL/TNFSF10-mediated apoptotic signaling, showcasing its ability to engage multiple receptors and form distinct molecular configurations for its biological activity.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA