

## TRAIL/TNFSF10 Protein, Mouse (His)

Cat. No.:	HY-P7089A
Synonyms:	TRAIL/TNFSF10 Protein, Mouse (His)
Species:	Mouse
Source:	E. coli
Accession:	P50592 (P118-N291)
Gene ID:	22035
Molecular Weight:	Approximately 21.82 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> P R G G R P Q K V A   A H I T G I T R R S   N S A L I P I S K D   G K T L G Q K I E S W E S S R K G H S F   L N H V L F R N G E   L V I E Q E G L Y Y   I Y S Q T Y F R F Q E A E D A S K M V S   K D K V R T K Q L V   Q Y I Y K Y T S Y P   D P I V L M K S A R N S C W S R D A E Y   G L Y S I Y Q G G L   F E L K K N D R I F   V S V T N E H L M D L D Q E A S F F G A   F L I N           </pre>
<b>Biological Activity</b>	Measured in a cytotoxicity assay using L929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED <sub>50</sub> for this effect is 0.2378 ng/mL, corresponding to a specific activity is 4.205×10 <sup>6</sup> units/mg.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The TRAIL/TNFSF10 protein, a cytokine, binds to TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly TNFRSF11B/OPG, inducing apoptosis. Its apoptotic activity may be modulated by binding to decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG, which lack the ability to induce apoptosis. TRAIL/TNFSF10 exists as a homotrimer, where one TRAIL/TNFSF10 homotrimer interacts with three
-------------------	--

---

TNFRSF10A monomers and another homotrimer interacts with three TNFRSF10B monomers. This multivalent interaction underscores the intricate molecular interactions governing the apoptotic signaling pathways mediated by TRAIL/TNFSF10 and its receptors.

---

**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](mailto:tech@MedChemExpress.com)

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