

Animal-Free TRAIL/TNFSF10 Protein, Mouse (His)

Cat. No.:	HY-P7089AF
Synonyms:	rMuTRAIL/TNFSF10; TNF-related apoptosis-inducing ligand; Tumor necrosis factor ligand superfamily member 10
Species:	Mouse
Source:	E. coli
Accession:	P50592 (P118-N291)
Gene ID:	22035
Molecular Weight:	Approximately 21 kDa

PROPERTIES

AA Sequence	<pre> M 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>
Biological Activity	Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED ₅₀ for this effect is <1 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
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 ₂ 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	<p>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</p>
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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.

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