

Animal-Free TNF beta Protein, Mouse (His)

Cat. No.:	HY-P700228AF
Synonyms:	TNFSF1B; Lymphotoxin-alpha (LT- α); LTalpha; Ltx; TNF-be; TNFSF1; Tnf; Tnfb; Tnfsf; Tnfsf1b; Tnlg1e; hlb38; hlb382; lymph
Species:	Mouse
Source:	E. coli
Accession:	P09225 (L34-L202)
Gene ID:	16992
Molecular Weight:	Approximately 19.36 kDa

PROPERTIES

AA Sequence	<pre> L S G V R F S A A R T A H P L P Q K H L T H G I L K P A A H L V G Y P S K Q N S L L W R A S T D R A F L R H G F S L S N N S L L I P T S G L Y F V Y S Q V V F S G E S C S P R A I P T P I Y L A H E V Q L F S S Q Y P F H V P L L S A Q K S V Y P G L Q G P W V R S M Y Q G A V F L L S K G D Q L S T H T D G I S H L H F S P S S V F F G A F A L </pre>
Biological Activity	The ED ₅₀ is <30 ng/mL as measure by its ability to induce cytotoxicity in L929 cells in the presence of vactinomycin D.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 μ g of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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 TNF beta Protein, in its homotrimeric form, functions by binding to TNFRSF1A/TNFR1, TNFRSF1B/TNFR, and TNFRSF14/HVEM, displaying a high degree of similarity in its interactions. In its heterotrimeric form, formed with LTB, it binds to TNFRSF3/LTBR, revealing its versatility in receptor interactions. Produced by lymphocytes, lymphotoxin, the heterotrimeric form of TNF beta, demonstrates cytotoxicity against a broad spectrum of tumor cells both in vitro and in vivo. It exists as homotrimeric and heterotrimeric complexes, with the latter composed of either two LTB and one LTA subunits or, to a lesser extent, two LTA and one LTB subunits. Notably, TNF beta interacts with TNFRSF14, further contributing to its</p>
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diverse immunomodulatory functions.

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

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