

## TNF-beta/TNFSF1 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P700612
Synonyms:	LTA; lymphotoxin alpha (TNF superfamily, member 1); LT; TNFB; TNFSF1; lymphotoxin alpha; OTTHUMP00000165897; tumor necrosis factor beta; Tumor necrosis factor ligand superfamily member 1; TNF-beta; LT-alpha
Species:	Human
Source:	HEK293
Accession:	P01374 (L35-L205)
Gene ID:	4049
Molecular Weight:	22.7 kDa

### PROPERTIES

AA Sequence	<pre> L P G V G L T P S A   A Q T A R Q H P K M   H L A H S T L K P A   A H L I G D P S K Q N S L L W R A N T D   R A F L Q D G F S L   S N N S L L V P T S   G I Y F V Y S Q V V F S G K A Y S P K A   T S S P L Y L A H E   V Q L F S S Q Y P F   H V P L L S S Q K M V Y P G L Q E P W L   H S M Y H G A A F Q   L T Q G D Q L S T H   T D G I P H L V L S P S T V F F G A F A   L           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
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 <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	<p>TNF-beta Protein, in its homotrimeric configuration, exhibits binding capabilities to TNFRSF1A/TNFR1, TNFRSF1B/TNFB, and TNFRSF14/HVEM, as demonstrated by various studies. Additionally, in its heterotrimeric association with LTB, it forms interactions with TNFRSF3/LTBR, underscoring its diverse receptor engagement. This cytokine, primarily produced by lymphocytes, showcases cytotoxic effects against a broad array of tumor cells both in vitro and in vivo. Structurally, TNF-beta exists as both homotrimers and heterotrimers, the latter comprising either two LTB and one LTA subunits or, to a lesser extent, two LTA and one LTB subunits. Furthermore, TNF-beta engages in interactions with TNFRSF14, emphasizing its pivotal role in mediating intricate immunological responses.</p>
------------	--

---

**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