

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

Cat. No.:	HY-P700419
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:	20.8 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>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized LTA at 5 µg/mL can bind human TNFRSF1B, the EC ₅₀ is ≤4 ng/mL.
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 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	TNF-beta Protein, in its homotrimeric configuration, exhibits binding capabilities to TNFRSF1A/TNFR1, TNFRSF1B/TNFR2, 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.

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