

## Product datasheet for **TP728373**

### Recombinant TNF beta (Tumor necrosis factor beta), Mouse

#### Product data:

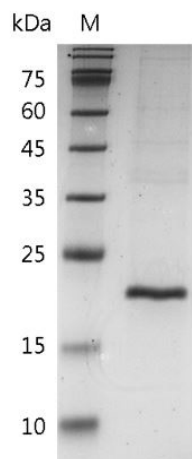
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant TNF beta (Tumor necrosis factor beta), Mouse
<b>Species:</b>	Mouse
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	LSGVRFSAARTAHPLPQKHLTHGILKPA AHLVGYPSKQNSLLWRASTDRAFLRHGFSLNNSLLIPTSGLYFVYSQVVFSGESCSPRAIPTPIYLAHEVQLFSSQYPFHVPLLSAQKSVYPGLQGPWVRSMYQGAVFLLSKGDQLSTHTDGGISHLHFSPSSVFFGAFAL with polyhistidine tag at the N-terminus.
<b>Tag:</b>	His Tag (N-term)
<b>Predicted MW:</b>	The protein has a calculated MW of 19.36 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).
<b>Purity:</b>	>98% as determined by SDS-PAGE.
<b>Buffer:</b>	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.
<b>Bioactivity:</b>	Measure by its ability to induce cytotoxicity in L929 cells in the presence of vactinomycin D. The ED <sub>50</sub> for this effect is <30 ng/mL.
<b>Endotoxin:</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution Method:</b>	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
<b>Applications:</b>	Cell culture
<b>Storage:</b>	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
<b>UniProt ID:</b>	<u><a href="#">P09225</a></u>
<b>Synonyms:</b>	TNFSF1B, Lymphotoxin-alpha (LT-α), LTalpha, Ltx, TNF-be, TNFSF1, Tnf, Tnfb, Tnfsf, Tnfsf1b, Tnlg1e, hlb38, hlb382, lymph



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**Summary:**

Tumor Necrosis Factor Beta (TNF beta) or lymphotoxin-alpha (LT- $\alpha$ ) is a 19 kDa tumor necrosis factor family protein with 171 amino acid residues. TNF beta is mainly expressed from lymphocytes, and mediates variety of inflammatory, immunostimulatory, and antiviral responses. TNF beta also involves development in secondary lymphoid organs. It is cytotoxic for different tumor cells in vitro and in vivo.

**Product images:**

SDS- PAGE analysis of recombinant mouse TNF beta