Recombinant TNFB protein (His tag)

Catalog Number	546643
Synonyms	LT-alpha; TNF-beta; Tumor necrosis factor ligand superfamily member 1
Species	Human
Expression System	E. coli
Accession	P01374
Molecular Weight	Predictes a molecular mass of 17.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	60-205
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 60-205 aa (P01374) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Lymphotoxin-alpha (LT-alpha) Fragment (aa 60-205) is a high-purity protein designed for targeted research on the TNF homology domain (THD). This 146-amino acid fragment retains key functional properties, making it an ideal tool for studying cytokine signaling, immune responses, and tumor cytotoxicity in vitro and in vivo. Lymphotoxin-alpha (LT-alpha), also known as TNF-beta, is a cytokine belonging to the tumor necrosis factor ligand superfamily member 1. In its homotrimeric form, it binds to receptors TNFRSF1A/TNFR1, TNFRSF1B/TNFBR, and TNFRSF14/HVEM, while its heterotrimeric form with LTB binds to TNFRSF3/LTBR. Produced by lymphocytes, LT-alpha exhibits cytotoxic activity against a wide range of tumor cells. The full-length protein is secreted as a homotrimer or membrane-associated as a heterotrimer, playing critical roles in immune regulation and cell death pathways. The provided fragment encompasses the functional THD domain, enabling focused investigation into these specific mechanisms.