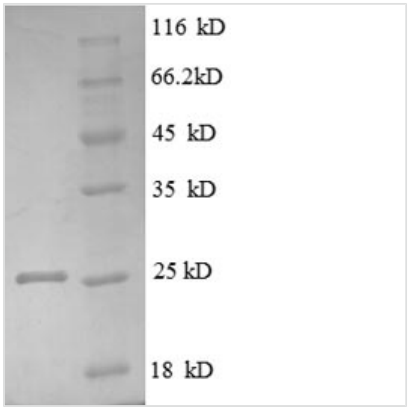
Recombinant Human Tumor necrosis factor receptor superfamily member 3 (LTBR), partial

Product Code	CSB-EP013227HU1
Relevance	Receptor for the heterotrimeric lymphotoxin containing LTA and LTB, and for TNFS14/LIGHT. Promotes apoptosis via TRAF3 and TRAF5. May play a role in the development of lymphoid organs.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P36941
Alias	Lymphotoxin-beta receptorTumor necrosis factor C receptorTumor necrosis factor receptor 2-related protein;Tumor necrosis factor receptor type III ;TNF-RIII ;TNFR-III
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QAVPPYASENQTCRDQEKEYYEPQHRICCSRCPPGTYVSAKCSRIRDTVCAT CAENSYNEHWNYLTICQLCRPCDPVMGLEEIAPCTSKRKTQCRCQPGMFCAA WALECTHCELLSDCPPGTEAELKDEVGKGNNHCVPCKAGHFQNTSSPSARC QPHTRCENQGLVEAAPGTAQSDTTCKNPLEPLPPEMSGT
Lead Time	3-7 business days
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Gene Names	LTBR
Expression Region	31-224aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	25.4kDa
Protein Description	Extracellular Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 31-224 form the expressed segment for recombinant Human LTBR. This LTBR protein is theoretically predicted to have a molecular weight of 25.4 kDa. This LTBR protein is produced using e.coli expression system. The N-terminal 6xHis tag was fused into the coding gene segment of LTBR, making it easier to detect and purify the LTBR recombinant protein in the later stages of expression and purification.

The human tumor necrosis factor receptor superfamily member 3 (LTBR), belonging to the tumor necrosis factor receptor (TNFR) superfamily is a cell surface receptor involved in immune system regulation. LTBR plays a critical role in the activation of the non-canonical NF-κB signaling pathway. LTBR is primarily expressed in B cells, dendritic cells, and certain T cells. Upon binding to its ligand, lymphotoxin alpha/beta (LTα/β), LTBR triggers signaling cascades that modulate immune responses, including the development and organization of lymphoid tissues, such as lymph nodes and spleen. Research on LTBR explores its functions in immune regulation, lymphoid tissue development, and its implications in inflammatory and autoimmune diseases.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.