

Recombinant Human LTBR, His-tagged

Cat. No. LTBR-1665H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	Mammalian Cells
Description	Lymphotoxin beta receptor (LTBR), a receptor for lymphotoxin, is a member of the tumor necrosis factor (TNF) family of receptors. It is expressed on the surface of most cell types, including cells of epithelial and myeloid lineages. LTBR specifically binds the lymphotoxin membrane form (a complex of lymphotoxin-alpha and lymphotoxin-beta). The encoded protein and its ligand play a role in the development and organization of lymphoid tissue and transformed cells. Activation of the encoded protein can trigger apoptosis. LTBR pathway is important in the development and maintenance of lymphoid structures. Blocking this pathway has proved beneficial in autoimmune diseases such as diabetes and rheumatoid arthritis.
Sequence	Human LT β R (Ser28-Met227) & (Gln31 Met227) - DIEGRMD Human IgG1 (Pro100-Lys330) - 6x His tag.
Molecular Weight	The predicted molecular weight of Recombinant Human Lymphotoxin β R is 49.6 kDa. However, the actual molecular weight as observed by migration on SDS Page is 70 kDa.
State Of Matter	Lyophilized.
Formulation	This recombinant protein was 0.2 μ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or

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	preservatives.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	Immobilized Lymphotoxin β R has been used for affinity purification of Lymphotoxin α 1/ β 2 heterotrimers.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	LTBR lymphotoxin beta receptor (TNFR superfamily, member 3) [Homo sapiens]
Synonyms	LTBR; lymphotoxin beta receptor (TNFR superfamily, member 3); CD18; TNFCR; D12S370; TNFR-RP; TNFRSF3; TNFR2-RP; LT-BETA-R; TNF-R-III; Tumor necrosis factor receptor superfamily member 3; Lymphotoxin-beta receptor; Tumor necrosis factor receptor 2-related protein; Tumor necrosis factor C receptor; Tumor necrosis factor receptor type III; TNF-RIII; TNFR-III
Gene ID	4055
mRNA Refseq	NM_002342
Protein Refseq	NP_002333

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MIM	600979
UniProt ID	P36941
Chromosome Location	12p13
Pathway	Cytokine-cytokine receptor interaction
Function	protein binding; receptor activity
Crystallographic structure of a 24-residue peptide from the lymphotoxin-B receptor bound to TRAF3.	

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