

## IL-T3 Protein, Human, Recombinant (His)

### General Information

Synonyms:	CD85K;leukocyte immunoglobulin like receptor B4;ILT-3;LIR5;ILT3;LIR-5
Protein Construction:	A DNA sequence encoding the human LILRB4 (NP_001265357.2) (Met1-Glu259) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gln 22
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NHJ6
Molecular Weight:	27.7 kDa (predicted); 35-42 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Loaded Human ILT3 alpha Protein, His Tag on AR2G Biosensor, can bind Rhesus Angiopoietin-like 7 Protein, His Tag with an affinity constant of 68.94nM as determined in BLI assay (Routinely tested).
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

LILRB4 (Leukocyte Immunoglobulin Like Receptor B4) is a Protein Coding gene. This gene is a member of the leukocyte immunoglobulin-like receptor (LIR) family, which is found in a gene cluster at chromosomal region 19q13.4. The receptor is expressed on immune cells where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. The receptor can also

function in antigen capture and presentation. LILRB4 is believed to down-regulate activation signals mediated by non-receptor tyrosine kinase cascades through the recruitment of SHP-1. LILRB4 is associated with the pathological processes of various inflammatory diseases. The LILRB4 is a central inhibitory receptor in Uterine dendritic cells (uDCs) that plays essential immune-regulatory roles at the maternal-fetal interface.

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