

# Human LILRB3/CD85a/ILT5 Protein

Cat. No. LIL-HM4B3

## Description

<b>Source</b>	Recombinant Human LILRB3/CD85a/ILT5 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly24-Glu443.
<b>Accession</b>	O75022-1
<b>Molecular Weight</b>	The protein has a predicted MW of 50 kDa. Due to glycosylation, the protein migrates to 60-72 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

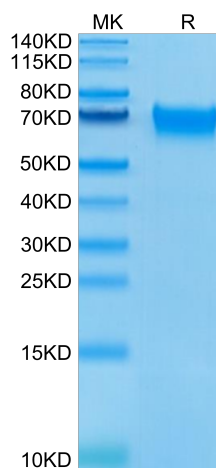
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

## Background

Leukocyte immunoglobulin-like receptor subfamily B (LILRB3), also known as ILT5, LIR3, and CD85a, is an immunoglobulin superfamily member that is involved in immune regulation. Subfamily B members have cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that inhibit signaling events via phosphatase SHP-1. LILRB3 may act as receptor for class I MHC antigens. Becomes activated upon coligation of LILRB3 and immune receptors, such as FCGR2B and the B-cell receptor.

## Assay Data

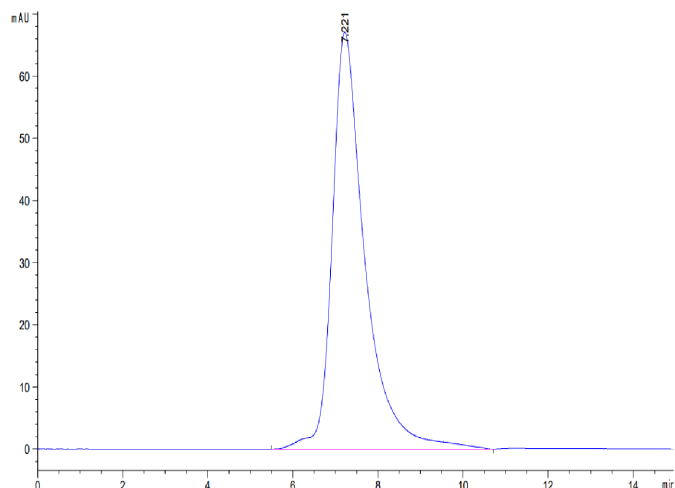
### Tris-Bis PAGE



Human LILRB3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

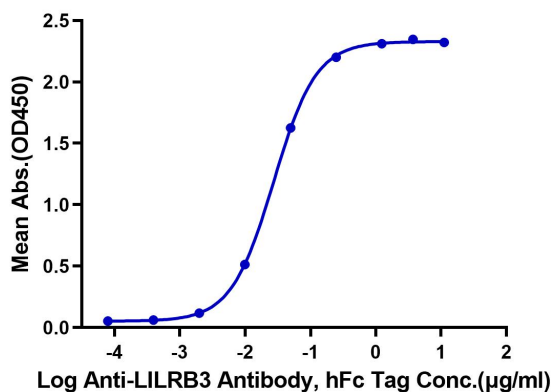
Assay Data



The purity of Human LILRB3 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human LILRB3, His Tag ELISA**  
0.5µg Human LILRB3, His Tag Per Well



Immobilized Human LILRB3, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-LILRB3 Antibody, hFc Tag with the EC50 of 27.3ng/ml determined by ELISA.