Recombinant Human LILRB2/ILT-4/CD85d Domain1&2 Protein

Catalog No.: RP00340

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Sequence Information

Species
Human

Gene ID
10288

Swiss Prot
Q8N423-1

Tags
C-His

Synonyms
CD85d; ILT4; ILT-4; ILT4CD85d; LILRB2; LIR2; MIR10

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
24.2 kDa

Observed MW
25-30 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The immunoglobulin-like transcript (ILT) comprise a family of activating and inhibitory type immunoreceptors whose genes are located in the same locus that encodes killer cell Ig-like receptors (KIR). ILT4, also known as LIR-2 and LILRB2, is a type I transmembrane protein expressed primarily on monocytes and dendritic cells (DC). LILRB2 is a receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles.

Basic Information

Description
Recombinant Human LILRB2/ILT-4/CD85d Domain1&2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln22-Val229) of Human LILRB2/CD85d/ILT4 Domain1&2 (Accession #Q8N423-1) fused with a C-His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

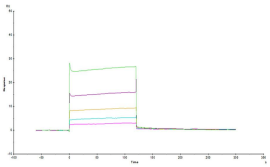
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

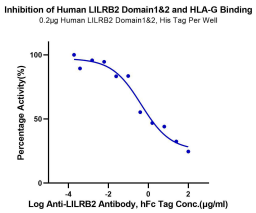
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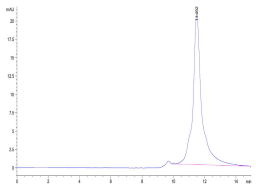
Validation Data



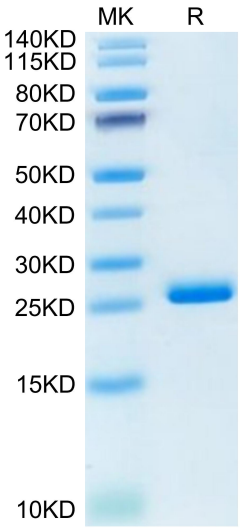
Human HLA-G Complex Tetramer, His Tag immobilized on CM5 Chip can bind Human LILRB2 Domain1&2, His Tag with an affinity constant of 6.5μM as determined in a SPR assay (Biacore T200).



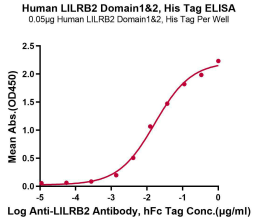
Serial dilutions of Anti-LILRB2 Antibody were added into Human LILRB2 Domain1&2, His Tag : Biotinylated Human HLA-G Complex Tetramer, His Tag binding reactioins. The half maximal inhibitiory concentration (IC_{50}) is 0.43 μg/mL.



The purity of Human LILRB2 Domain 1&2 is greater than 95% as determined by SEC-HPLC.



Recombinant Human LILRB2/ILT-4/CD85d Domain1&2 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human LILRB2 Domain1&2, His Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Anti-LILRB2 Antibody, hFc Tag with the EC_{50} of 16.6 ng/mL determined by ELISA (QC Test).