

Human ILT6 / LILRA3 Protein (Fc Tag)

Catalog Number: 13549-H02H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

CD85e; HM31; HM43; ILT-6; ILT6; LIR-4; LIR4

Protein Construction:

A DNA sequence encoding the human LILRA3 (AAH28208.1) (Met1-Glu439) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 80 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gly 24

Molecular Mass:

The recombinant human LILRA3/Fc is a disulfide-linked homodimer. The reduced monomer comprises 657 amino acids and has a predicted molecular mass of 72 kDa. The apparent molecular mass of the protein is approximately 102 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

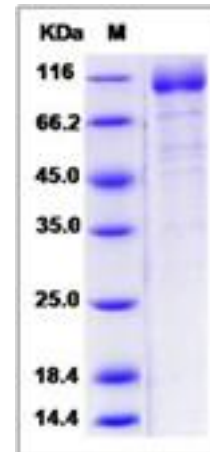
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ILT6, also known as LILRA3, belongs to the ILT family. In human, the ILT gene family includes up to 11 members. The extracellular portion of all members includes at least two and usually four immuno-globulin domains. ILT-2 through 5 are all inhibitory members having variable numbers of cytoplasmic ITIM domains. ILT6 lacks a transmembrane domain. The function of ILT6 is currently unknown. However it is highly homologous to other LILR genes, and can bind human leukocyte antigen (HLA) class I. Therefore, if secreted, the ILT6 might impair interactions of membrane-bound LILRs (such as LILRB1, an inhibitory receptor expressed on effector and memory CD8 T cells) with their HLA ligands, thus modulating immune reactions and influencing susceptibility to disease.

References

1. Wiśniewski A, *et al.* (2004) Distribution of LILRA3 (ILT6 / LILRA3/LIR4) deletion in psoriatic patients and healthy controls. *Hum Immunol.* 64(4):458-61.
2. Norman PJ, *et al.* (2003) DNA sequence variation and molecular genotyping of natural killer leukocyte immunoglobulin-like receptor, LILRA3. *Immunogenetics.* 55(3):165-71.
3. Cella M, *et al.* (1997) A novel inhibitory receptor (ILT3) expressed on monocytes, macrophages, and dendritic cells involved in antigen processing. *J Exp Med.* 185(10): 1743-51.

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