Human LILRB3 / LIR3 / ILT5 / CD85a Protein (His Tag), Biotinylated

Catalog Number: **11978-H08H-B**

General Information

Gene Name Synonym:

CD85A; HL9; ILT-5; ILT5; LILRA6; LIR-3; LIR3; MGC138403; PIRB; XXbac-BCX105G6.7

Protein Construction:

A DNA sequence encoding the human LILRB3 (NP_006855.2) (Met1-Glu443) was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.

Source: Human

Expression Host: HEK293

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:

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

Stability:

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

Predicted N terminal: Gly 24

Molecular Mass:

The recombinant human LILRB3 consists of 431 amino acids and predicts a molecular mass of 47.6 kDa.

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:

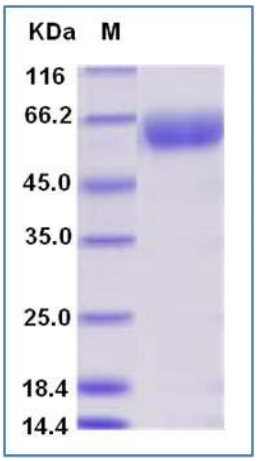
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Leukocyte immunoglobulin-like receptor subfamily B member 3, also known as Leukocyte immunoglobulin-like receptor 3, Immunoglobulin-like transcript 5, Monocyte inhibitory receptor HL9, CD85 antigen-like family member A, CD85a and LILRB3, is a single-pass type I membrane protein which belongs to the leukocyte receptor cluster (LRC) present on 19q13.4. LILRB3 / CD85a contains fourIg-like C2-type (immunoglobulin-like) domains. LILRB3 / CD85a contains three copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases. LILRB3 / CD85a 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. It is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. Multiple transcript variants encoding different isoforms have been found.

References

1.Huang,J. et al., 2010, J Virol. 84 (18): 9463-71. 2.Arm J.P. et al., 1997, J. Immunol. 159:2342-2349. 3.Wende H. et al., 2000, Immunogenetics 51:703-713.