

Recombinant Human LILRB3 Protein (Met1-Glu443), His-tagged, Biotinylated

Cat. No. LILRB3-535H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LILRB3 Protein (NP_006855.2) (Met1-Glu443) was produced by HEK293 Cells expression system. This protein was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.
Species	Human
Source	HEK293
ProteinLength	Met1-Glu443
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 four Ig-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

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	autoreactivity. Multiple transcript variants encoding different isoforms have been found.
Predicted N Terminal	Gly 24
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human LILRB3 consists of 431 amino acids and predicts a molecular mass of 47.6 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

Gene Name	LILRB3 leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 [Homo sapiens]
Official Symbol	LILRB3
Synonyms	LILRB3; CD85a; HL9; ILT5; LIR 3; LIR3; PIRB; CD85A; ILT-5; LIR-3; MGC138403;
Gene ID	11025
mRNA Refseq	NM_001081450
Protein Refseq	NP_001074919
MIM	604820
UniProt ID	O75022

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