

Active Recombinant Human LILRA1 protein, His-tagged

Cat. No. LILRA1-267H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LILRA1(Pro17-Asn461) fused with His tag at C-terminal was expressed in NS0.
Species	Human
Source	Mammalian Cells
ProteinLength	17-461 a.a.
Description	LILRA1, also known as CD85i and LIR-6, is an approximately 70 kDa variably glycosylated transmembrane protein that regulates immune cell activation. Mature human LILRA1 consists of a 445 amino acid (aa) extracellular domain (ECD) with 4 Ig-like domains, a 21 aa transmembrane segment, and a 7 aa cytoplasmic tail. The transmembrane segment contains a positively charged arginine which may mediate association with signaling molecules. Alternative splicing generates an isoform that lacks the third and fourth Ig-like domains. LILRA1 is expressed on monocytes and binds to the free heavy chain of the MHC class I molecule HLA-B27. It is activated in response to the BCG mycobacterial strain. R&D Systems in-house testing indicates that LILRA1 binds to Angiopoietin-like 7, consistent with the demonstrated functional interactions between other members of these protein families.
Predicted N Terminal	Pro17 & Gly24
Form	Lyophilized from a 0.2 µm filtered solution in PBS.

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Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human LILRA1/CD85i/LIR-6 is coated at 2 µg/mL, Recombinant Human Angiopoietin-like 7/ANGPTL7 binds with an ED50 = 0.3-1.8 µg/mL.
Molecular Mass	Predicted Molecular Mass: 49 kDa SDS-PAGE: 62-76 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 250 µg/mL in PBS.

GENE INFORMATION

Gene Name	LILRA1 leukocyte immunoglobulin like receptor A1 [Homo sapiens]
Official Symbol	LILRA1
Synonyms	LIR6; CD85I; LIR-6; CD85 antigen-like family member I; leucocyte Ig-like receptor A1; leukocyte immunoglobulin-like receptor 6; leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1
Gene ID	11024

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mRNA Refseq	NM_001278318
Protein Refseq	NP_001265247
MIM	604810
UniProt ID	O75019

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