

Active Recombinant Mouse Lir5 protein, His-tagged

Cat. No. Lir5-264H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Lir5(Gln17-Asn248) fused with His tag at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	17-248 a.a.
Description	The leukocyte immunoglobulin-like receptors (LILR) comprise a family of activating and inhibitory type immunoreceptors whose genes are located in the same locus that encodes killer cell Ig-like receptors (KIRs). Mouse LILRC1 (leukocyte immunoglobulin-like receptor C1), also known as LILRA5, ILT11, LIR-9, and CD85f, consists of a 227 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 10 aa cytoplasmic tail. The ECD contains two Ig-like domains, and the transmembrane segment contains a positively charged aspartic acid residue which may mediate its association with the signaling molecule, FcR common gamma chain. Within the ECD, mouse LILRC1/LILRA5 shares 56% and 85% aa sequence identity with human and rat LILRA5, respectively. LILRA5 is expressed by monocytes, macrophages, and neutrophils. It is found as an approximately 40 kDa molecule on the cell surface, while a soluble 25 kDa form can be released into the synovial fluid of rheumatoid arthritis patients. Cross-linking of LILRA5 on monocytes induces the expression of pro-inflammatory cytokines (IL-1 beta, IL-6, TNF-alpha) as well as the anti-inflammatory IL-10. R&D Systems in-house

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	testing indicates that LILRC1/LILRA5 binds to Angiopoietin-like 7, consistent with the demonstrated functional interactions between other members of these protein families.
Predicted N Terminal	No results obtained. Gln17 inferred from enzymatic pyroglutamate treatment revealing Glu18
Form	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse LILRC1 is coated at 2 µg/mL, Recombinant Human Angiopoietin-like Protein 7/ANGPTL7 binds with an ED50 = 60-360 ng/mL.
Molecular Mass	Predicted Molecular Mass: 27 kDa SDS-PAGE: 36-50 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	Lilra5 leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member
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5 [Mus musculus]

Official Symbol

Lilra5

Synonyms

LILRA5; leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5; leukocyte immunoglobulin-like receptor; Gm4878; Lilrc1; EG232801; E030017K20;

Gene ID

232801

mRNA Refseq

NM_001081239

Protein Refseq

NP_001074708

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