Active Recombinant Mouse Interleukin 28 Receptor Alpha, Fc-tagged

Cat. No. Il28ra-5658M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantMouse Il28ra protein was expressed in Murine myeloma celllinewith the Fc part of Mouse IgG2A Glu98-Lys330 (C-terminus) and MouseIl28ra Arg21-Ala227 (N-terminus).
Species	Mouse
Source	Mammalian Cells
ProteinLength	21-227 a.a.
Description	Il28ra isa type I transmembrane glycoprotein that is cytokine receptor family 2 member12 (CRF2-12). It pairs with the IL-10 receptor β subunit (IL-10 Rβ, CRF2-4)to form the IL-28 R. Each subunit of this receptor can interact with theinterferon-like cytokines (type III interferons) IL-28A (IFN-λ2), IL-28B(IFN-λ3) and IL-29 (IFN-λ1). Mouse IL 28A and IL-28B share 97% amino acid(aa) identity rodents do not express IL-29. Mouse Il28ra cDNA encodes a 535 aaprotein with a 20 aa signal peptide, a 207 aa extracellular domain (ECD) witha fibronectin type III motif and four potential N-glycosylation sites, a 21 aatransmembrane sequence, and a proline-rich and acidic 287 aa cytoplasmicdomain.
Form	Lyophilizedfrom a 0.2 μm filtered solution in PBS.
N-terminalSequence	Arg21

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MolecularWeight	50.6 kDa (monomer)
Activity	Measuredby its binding ability in a functional ELISA. 1 μg/mL of rm Il28ra FcChimera was mixed with serially diluted rmIL-28B. Following incubation, the Il28ra rmIL-28Bcomplex was captured in a goat anti-mFc-coated plate. Bound IL-28B wasmeasured using biotinylated goat anti-mIL-28B. The concentration of rmIL-28Bthat produces 50% of the optimal binding was found to be approximately 0.7-3.5μg/mL.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	62-70kDa, reducing conditions.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	200 μg/mLin sterile PBS
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to-70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Il28ra interleukin 28 receptoralpha [Mus musculus]
Official Symbol	Il28ra
Synonyms	Il28ra; interleukin28 receptor alpha; IFNLR1; CRF2-12; interleukin-28 receptor subunit alpha;IL-28RA; IL-28R-alpha; IFN-lambda R1; IL-28 receptor subunit alpha;interferon lambda receptor 1; interferon-lambda receptor 1; class II cytokinereceptor 12; cytokine receptor class-II member 12; cytokine receptor family

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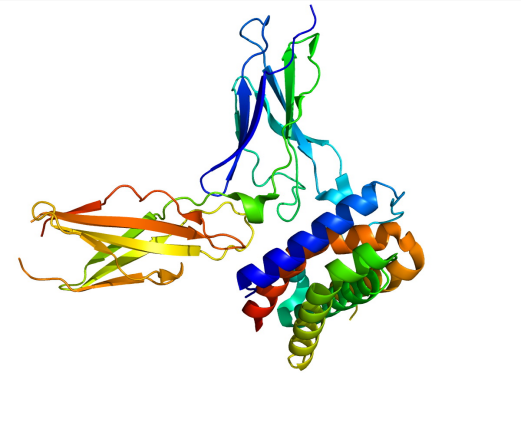
Gene ID	242700
mRNA Refseq	NM_174851
Protein Refseq	NP_777276
UniProt ID	Q3URN4
Chromosome Location	4
Pathway	Cytokine-cytokinereceptor interaction; Jak-STAT signaling pathway
Function	cytokine receptoractivity; receptor activity
Renderingbased on PDB 3OG4.	

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