

Active Recombinant Mouse Interleukin 28 Receptor Alpha, Fc-tagged

Cat. No. IL28ra-5658M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL28ra protein was expressed in Murine myeloma cell line with the Fc part of Mouse IgG2A Glu98-Lys330 (C-terminus) and Mouse IL28ra Arg21-Ala227 (N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	21-227 a.a.
Description	IL28ra is a type I transmembrane glycoprotein that is cytokine receptor family 2 member 12 (CRF2-12). It pairs with the IL-10 receptor β subunit (IL-10 R β , CRF2-4) to form the IL-28 R. Each subunit of this receptor can interact with the interferon-like cytokines (type III interferons) IL-28A (IFN- λ 2), IL-28B (IFN- λ 3) and IL-29 (IFN- λ 1). Mouse IL 28A and IL-28B share 97% amino acid (aa) identity rodents do not express IL-29. Mouse IL28ra cDNA encodes a 535 aa protein with a 20 aa signal peptide, a 207 aa extracellular domain (ECD) with a fibronectin type III motif and four potential N-glycosylation sites, a 21 aa transmembrane sequence, and a proline-rich and acidic 287 aa cytoplasmic domain.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	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 [<i>Mus musculus</i>]
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.	