

Active Recombinant Human Interleukin 28 Receptor, Alpha (interferon, lambda receptor), Fc-tagged

Cat. No. IL28RA-5659H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL28RA protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Human IL28RA Arg21-Ala228 (N-terminus).
Species	Human
Source	Mammalian Cells
Protein Length	21-228 a.a.
Description	IL28RA is a type I transmembrane glycoprotein that is the 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) or IL-29 (IFN- λ 1). Human IL28RA cDNA encodes a 520 amino acid (aa) protein with a 20 aa signal peptide, a 208 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 271 aa cytoplasmic domain.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Arg21
Molecular Weight	50.2 kDa (monomer)

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Activity	Measured by its binding ability in a functional ELISA. In a 100 µL reaction mixture containing rhIL28RA/FcChimera at 1 µg/mL and rhIL-28A dilutions at 1-1000 ng/mL, the concentration of rhIL-28A that produces 50% of the optimal binding response is found to be approximately 40-200 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	65-75 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 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 receptor, alpha (interferon, lambda receptor) [Homo sapiens]
Official Symbol	IL28RA
Synonyms	IL28RA; interleukin 28 receptor, alpha (interferon, lambda receptor); IFNLR; LICR2; IFNLR1; CRF2/12; IL-28R1; interleukin-28 receptor subunit alpha; CRF2-12; IL-28RA; IL-28R-alpha; IFN-lambda-R1; IFN-lambda receptor 1; interleukin 28 receptor A; IL-28 receptor subunit alpha; interferon lambda receptor 1; interferon lambda receptor 1; class II cytokine receptor CRF2/12; interleukin or cytokine receptor 2; cytokine receptor class-II member 12; cytokine receptor family 2 member 12; likely interleukin or cytokine receptor 2

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Gene ID	163702
mRNA Refseq	NM_173064
Protein Refseq	NP_775087
MIM	607404
UniProt ID	Q8IU57
Chromosome Location	1p36.11
Pathway	Cytokine-cytokinereceptor interaction; Jak-STAT signaling pathway
Function	contributes_to cytokinereceptor activity; protein binding; receptor activity
Renderingbased on PDB OG4.	