

# 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  $\beta$  subunit (IL-10 R $\beta$ , 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- $\lambda$ 2), IL-28B (IFN- $\lambda$ 3) or IL-29 (IFN- $\lambda$ 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  $\mu$ m filtered solution in PBS.

**N-terminal Sequence** Arg21

**Molecular Weight** 50.2 kDa (monomer)

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<b>Activity</b>	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.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	65-75 kDa, reducing conditions.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 µg/mL in sterile PBS
<b>Storage</b>	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

<b>Gene Name</b>	IL28RA interleukin 28 receptor, alpha (interferon, lambda receptor) [ Homo sapiens ]
<b>Official Symbol</b>	IL28RA
<b>Synonyms</b>	IL28RA; interleukin28 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

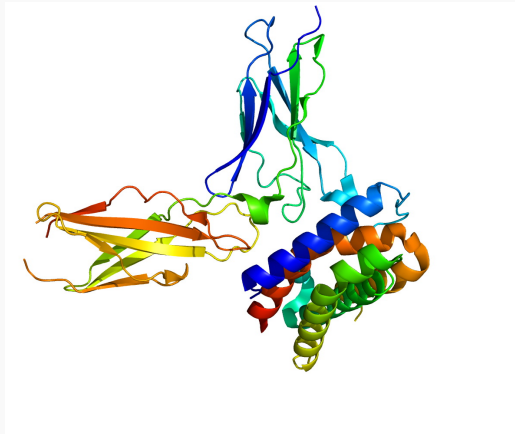
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<b>Gene ID</b>	163702
<b>mRNA Refseq</b>	NM_173064
<b>Protein Refseq</b>	NP_775087
<b>MIM</b>	607404
<b>UniProt ID</b>	Q8IU57
<b>Chromosome Location</b>	1p36.11
<b>Pathway</b>	Cytokine-cytokinereceptor interaction; Jak-STAT signaling pathway
<b>Function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

Rendering based on  
PDB OG4.



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