

Active Recombinant Human Interleukin 9 Receptor, His-tagged

Cat. No. IL9R-5664H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL9R protein was expressed in Murine myeloma cell line. Val40-Pro270, with a C-terminal 10-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	40-270 a.a.
Description	The specific high affinity functional IL9R complex consists of a ligand-specific IL9R (α) subunit and the common γ chain that is shared with the receptors for IL-2, IL-4, IL-7 and IL-15. Both the IL9R subunit and the common γ chain are members of the hematopoietin receptor superfamily. The cDNAs encoding mouse and human IL-9 receptors have been isolated. The deduced mouse and human transmembrane proteins, sharing 53% amino acid sequence identity, contain 468 and 533 amino acid residues, respectively. As a result of alternative splicing, cDNA clones encoding isoforms of IL9R, including a putative soluble form, have also been identified.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS and NaCl with BSA as a carrier protein.
N-terminal Sequence	Val40
Molecular Weight	27.4 kDa

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Activity	Measured by its ability to inhibit the IL-9-dependent proliferation of MO7e human megakaryocytic leukemia cells. The ED50 for this effect is typically 1-4 µg/mL in the presence of 5 ng/mL of rhIL-9.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	38 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	250 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin
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	IL9R interleukin 9 receptor [Homo sapiens]
Official Symbol	IL9R
Synonyms	IL9R; interleukin 9 receptor; CD129; interleukin-9 receptor; IL-9R; IL-9 receptor; OTTHUMP00000024331; OTTHUMP00000024332
Gene ID	3581
mRNA Refseq	NM_002186
Protein Refseq	NP_002177

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MIM	300007
UniProt ID	Q01113
Chromosome Location	Xq28 and Yq12
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; IL-9 Signaling Pathway; Jak-STAT signaling pathway
Function	interleukin-9 receptor activity; receptor activity

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