

Recombinant Rat Il4r Protein, His-tagged

Cat. No. Il4r-11106R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat IL-4 R alpha Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ile 26 - Arg 232 (Accession # Q63257-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ile 26
Species	Rat
Source	HEK293
ProteinLength	26-232 aa
Description	IL-4 is a pleiotropic cytokine produced by activated Th2 cells and mast cells, and plays a pivotal role in immune responses. The effects of IL-4 are mediated after binding to high affinity receptor complexes present on hematopoietic as well as non-hematopoietic cells. Hematopoietic cellular responses to IL-4 are mediated by a high affinity receptor complex comprised of the 140 kDa IL4Rα (CD124) subunit and the 70 kDa common cytokine γc chain (CD132). Interleukin 4 Receptor (IL4R) also known as CD124, IL4Rα and BSF receptor, is a type I cytokine receptor produced by activated Th2 cells and mast cells, and plays an important role in Th2-biased immune responses, alternative macrophage activation, mucosal immunity, allergic inflammation, tumor progression, and atherogenesis. A soluble form of the encoded IL4R protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. IL4R can alternatively associate with IL13Ra1 to form the type II receptor which is responsive to both IL4 and IL13.

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Interleukin-4 receptor has been shown to interact with SHC1.

Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 25.7 kDa. The protein migrates as 35-45 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Il4r interleukin 4 receptor [Rattus norvegicus (Norway rat)]
Official Symbol	Il4r
Synonyms	Il4r; Il4ra; interleukin 4 receptor; interleukin-4 receptor subunit alpha; IL-4RA; IL-4R-alpha; IL-4R subunit alpha; IL-4 receptor subunit alpha; interleukin 4 receptor, alpha; interleukin-4 receptor alpha chain

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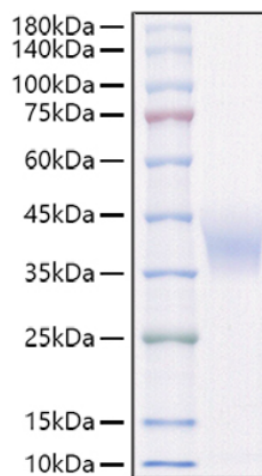
Gene ID 25084

mRNA Refseq NM_133380

Protein Refseq NP_596871

UniProt ID Q63257

SDS-PAGE.



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