

Recombinant Mouse Interleukin 4 Receptor, Alpha, Fc-tagged

Cat. No. Il4ra-1757M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Il4ra encoding the extracellular domain (amino acid residues 26 - 233) was fused to the carboxy-terminal Fc region of human IgG1 via a linker peptide. The chimeric protein was expressed in a mouse myeloma cell line, NSO.

Species Mouse

Source Mammalian Cells

ProteinLength 26-233 a.a.

Description Interleukin 4 receptor is a type I cytokine receptor. IL4R is its human gene. This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE antibody production in B cells. Among T cells, the encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded 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.

Molecular Weight The predicted molecular weight of Recombinant Mouse IL-4 R is Mr 51 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 65-80 kDa.

State Of Matter Lyophilized.

Purity >90% by SDS Page and analyzed by silver stain.

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Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<0.1 ng per 1 g as determined by the LAL method.
Biological Activity	The biological activity of Mouse IL-4 R was determined by its ability to inhibit the IL-4-dependent proliferation of HT2 cells. The expected ED50 for this effect is typically 0.05-0.2 µg/ml in the presence of 3 ng/ml of Mouse IL-4.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Il4ra interleukin 4 receptor, alpha [<i>Mus musculus</i>]
Synonyms	Il4ra; interleukin 4 receptor, alpha; Il4r; CD124; MGC118473; IL-4 receptor alpha chain
Gene ID	16190
mRNA Refseq	NM_001008700
Protein Refseq	NP_001008700
UniProt ID	P16382
Chromosome	7 F3; 7 62.0 cM

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Location**Pathway**


Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway

Function

cytokine receptor activity; protein binding; receptor activity

PDB rendering based on 1iar.



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