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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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IL-4Ra (CD124), Fc-Fusion (IgG1), Avi-Tag Recombinant

Catalog: 102467
Lot: 250212

Product Information

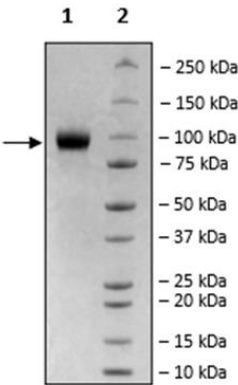
Description:	Recombinant IL-4Ra (interleukin-4 receptor subunit alpha), transcript variant 1, also known as CD124, encompassing amino acids 26-232 of the extracellular domain. This construct contains the Fc domain of human IgG1 fused to the C-terminus, followed by a C-terminal Avi-Tag™. The recombinant protein was affinity purified.
Background:	Interleukin-4 is produced mainly by a subpopulation of activated T cells (Th2) that are the biologically most active helper cells for B cells and secrete IL-5 and IL-6. The biological activities of IL-4 are mediated by a specific receptor. The extracellular domain of the IL-4 receptor is related to the receptors for EPO (erythropoietin), IL-6, and the beta chain of the IL-2 receptor (CD122). There are two types of receptors for IL-4. Type 1 receptor is a heterodimer consisting of IL-4Ralpha (IL4-Rα) and IL-4Rgamma (IL-4Rγ), mostly present on hematopoietic cells. The type 2 receptor is a heterodimer consisting of IL-4Ralpha and IL-13Ralpha1 (IL-13Rα1). IL-4 enhances expression of MHC (major histocompatibility class) 2 antigens on B cells. It can promote their capacity to respond to other B cell stimuli and to present antigens for T cells. Pretreatment of macrophages with IL-4 prevents the production of IL-1, TNFα (tumor necrosis factor alpha) and prostaglandins in response to activation by bacterial endotoxins or IFN-γ (interferon gamma). IL-4 plays crucial roles in inflammation, fibrosis, allergic reactions, and cancer. The therapeutic exploitation of IL-4 signaling pathways can advance the treatment of auto-immune disorders.
Species:	Human
Construct:	IL-4Ra (26-232-Fc(IgG1)-Avi)
Concentration:	0.87 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	53 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	NM_000418.4
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	A white 96-well plate was precoated with IL-4, His-Avi-Tag Recombinant (#102538) (100 ng/well). Blocking Buffer 2 (#79728) and PBST were used for blocking and washing steps, respectively. For protein titration a serial dilution of IL-4Ra (CD124), Fc-Fusion (IgG1), Avi-Tag Recombinant (#102467) at the highest concentration of 10 ng/μl (250 ng/reaction) was prepared in 1x PP-02 Assay Buffer. Diluted IL-4Ra was then added to the wells and incubated at Room Temperature (RT) for 1 hour. The plate was then washed again and incubated with anti-Fc-HRP conjugate diluted 1:1000 in Blocking Buffer 2 for 1 hour at RT. After the final wash, ELISA ECL substrate mix (#79670) was added to each well and chemiluminescence was read.
Applications:	Useful for binding assays.

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Quality Control Data

4-20% SDS-PAGE Coomassie Staining



IL-4: IL-4Ra Binding Activity

