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IL-4, His-Avi-Tag Recombinant

Catalog: 102538 Lot: 250211

Product Information

Description: Recombinant IL-4 (interleukin 4), transcript variant 1, encompassing amino acids 25-

153(end). This construct contains a C-terminal Avi-Tag™ followed by a His-tag (6xHis).

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 that also 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 (IL-4R α) and IL-4Rgamma (IL-4R γ c), mostly present on hematopoietic cells. The type 2 receptor is a heterodimer consisting of IL-4Ralpha and IL-13Ralpha1 (II-13R α 1). 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, TNF α (tumor necrosis factor alpha) and prostaglandins in response to activation of the cells by bacterial endotoxins or IFN-y (interferon gamma). IL-4 plays crucial roles in inflammation, fibrosis, allergic reactions, and cancer. The therapeutic exploitation of IL-4 signaling pathways can result

in advances in the treatment of auto-immune disorders.

Species: Human

Construct: IL-4 (25-153(end)-Avi-His)

Concentration: 0.69 mg/ml Expression System: HEK293 ≥90%

Format: Aqueous buffer solution.

Formulated In: 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol

MW: 18 kDa + glycans

Glycosylation: This protein runs at a higher MW by SDS-PAGE due to glycosylation.

Endotoxin Level: 14.0 EU/mg **Genbank Accession:** NM 000589.4

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

Recombinant (#102467) (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-4, Avi-His-Tag Recombinant (#102538) at the highest concentration of 0.5 ng/µl (12.5 ng/reaction) was prepared in 1x PP-02 Assay Buffer. Diluted IL-4 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-His-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

