Human IL-4 Protein

Cat. No. IL4-HM401



Description	
Source	Recombinant Human IL-4 is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains His25-Ser153.
Accession	P05112
Molecular Weight	The protein has a predicted MW of 17.8 kDa. Due to glycosylation, the protein migrates to 23-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
Formulation and Storage	

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Interleukin-4, also known as IL4, is a secreted protein which belongs to the IL-4/IL-13 family. Interleukin-4/IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. In the presence of IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, and this cytokine is a ligand for interleukin 4 receptor.

Assay Data

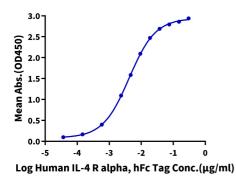
Bis-Tris PAGE



Human IL-4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human IL-4, His Tag ELISA 0.1µg Human IL-4, His Tag Per Well



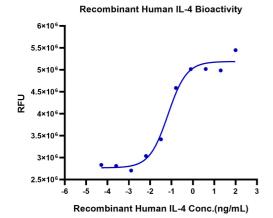
Immobilized Human IL-4 at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag with the EC50 of 4.2 ng/ml determined by ELISA (QC Test).

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Assay Data

Cell Based Assay



Measured in a cell proliferation assay using TF1 human erythroleukemic cells. The ED50 for this effect is <0.2 ng/mL.