Human IL-4 Protein

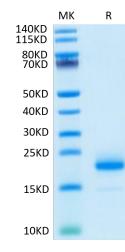
Cat. No. IL4-HM001

κλιτυς

Description	
Source	Recombinant Human IL-4 Protein is expressed from HEK293 without tag.
	It contains His25-Ser153.
Accession	P05112-1
Molecular Weight	The protein has a predicted MW of 17.1 kDa. Due to glycosylation, the protein migrates to 23-25 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and S	Storage
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before Iyophilization.
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 receipt20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities fo 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.

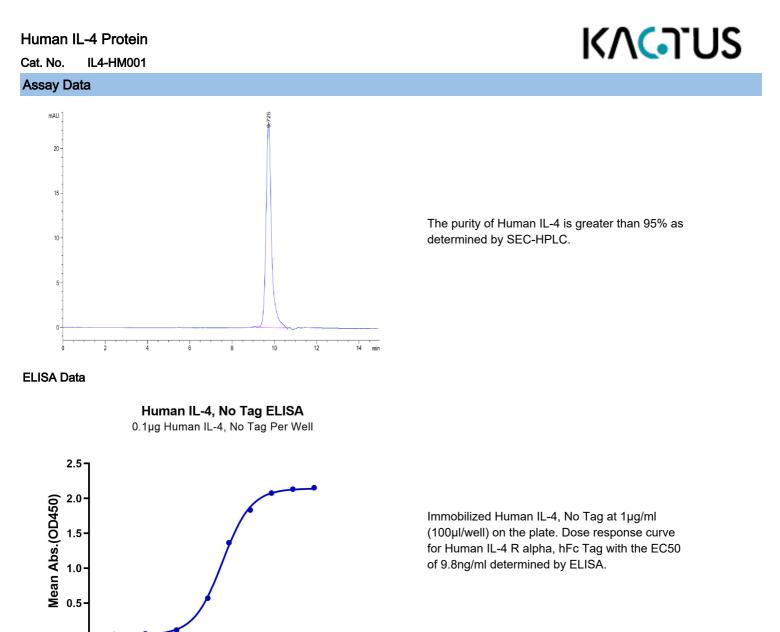
Assay Data

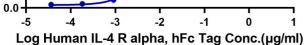
Tris-Bis PAGE



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

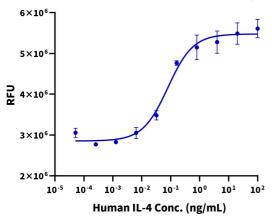
SEC-HPLC





Cell Based Assay

Recombinant Human IL-4 Bioactivity



Measured in a cell proliferation assay using TF1 human erythroleukemic cells. The ED50 for this effect is 0.05-0.35 ng/mL