Cat. No. PME30068

Description



PRODUCT INFORMATION

11 -4 **Target**

Interleukin-4;IL-4;B-Cell Stimulatory Factor **Synonyms** 1;BSF-1;Binetrakin;Lymphocyte Stimulatory

Factor 1; Pitrakinra; IL4

Recombinant Human Interleukin-4 is produced by our Mammalian expression system and the target gene encoding His25-Ser153 is expressed with a Fc tag at the C-terminus.

Delivery In Stock P05112 **Uniprot ID Expression Host HEK293** C-Fc Tag Tag

Molecular Not available Characterization **Molecular Weight** 41.9 KDa

Greater than 95% as determined by reducing **Purity**

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Formulation &

Reconstitution

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

Interleukin-4 (IL-4) is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression.
IL-4 is produced by mast cells, T cells, and bone
marrow stromal cells. IL-4 regulates the
differentiation of naive CD4 T cells into helper Th2

cells, characterized by their cytokine-secretion **Background** profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with

elevated IgE production and allergic response.

Email: info@dimabio.com Website: www.dimabio.com

Research use only **Usage**

Conjugate Unconjugated





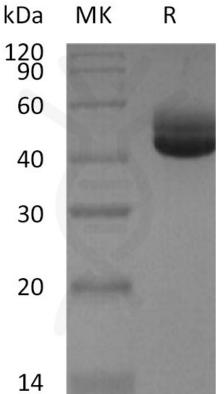


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.

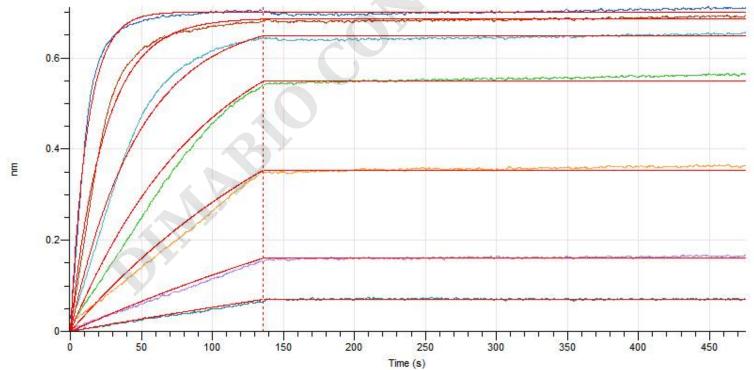


Figure 2. Loaded Cynomolgus IL-4RA-His on HIS1K Biosensor, can bind Human IL-4-Fc with an affinity constant of <10-3 nM as determined in BLI assay.



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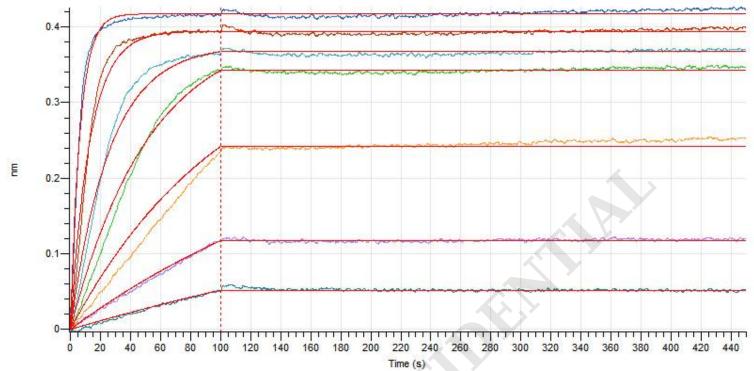


Figure 3. Loaded Human IL-4RA-His on HIS1K Biosensor, can bind Human IL-4-Fc with an affinity constant of <10-3 nM as determined in BLI assay.

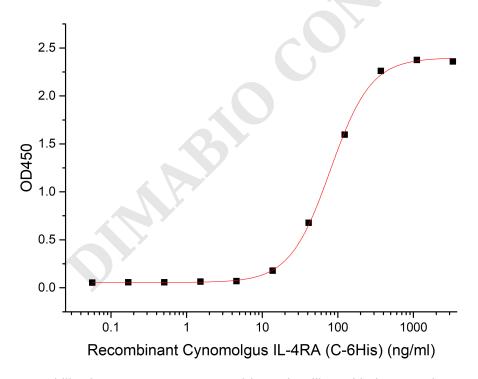


Figure 4. Immobilized Human IL-4-Fc at $5\mu g/ml$ (100 $\mu l/well$) can bind Cynomolgus IL-4Ra-His. The ED50 of Recombinant Human IL-4Ra-His is 79.49 ng/ml.

