Cat. No. PME100300



PRODUCT INFORMATION

Target IL2

Synonyms IL-2;lymphokine;TCGF

Recombinant Human IL2 Protein with C-terminal Description

human Fc tag

Delivery In Stock **Uniprot ID** P60568 **Expression Host HEK293**

Tag C-Human Fc Tag

Molecular

Purity

Background

IL2(Ala21-Thr153) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 41.6 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before

Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of 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.

This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9, IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4 and CD2. cytokine produced by activated CD4 and CD8 T

lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and IL7. The expression of this gene

in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. [provided by RefSeq, Sep 2020]

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Usage Research use only

Conjugate Unconjugated





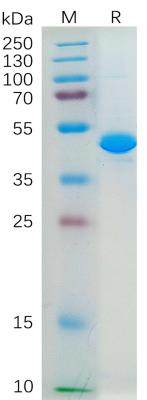


Figure 1. Human IL2 Protein, hFc Tag on SDS-PAGE under reducing condition.

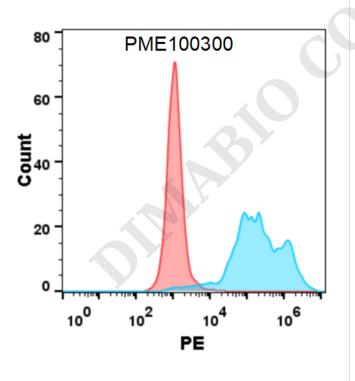


Figure 2. Flow cytometry analysis with 1 μ g/mL Human IL2 Protein, hFc tag (PME100300) on HEK293 cells transfected with human IL2RB (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).



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Human IL2, hFc tagged protein ELISA

0.2 μg of Human IL2RA, His tagged protein per well

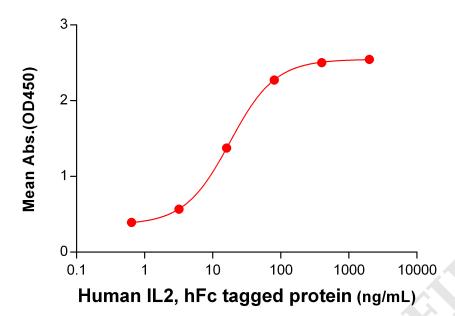


Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human IL2RA Protein, His Tag PME100098 can bind Human IL2 Protein, hFc Tag (PME100300) in a linear range of 0.64-400 ng/mL.

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