

Active Recombinant Human IL3 Protein, His-tagged

Cat. No. IL3-11105H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human IL-3 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ala 20 - Phe 152 (Accession # P08700-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ala 20
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Species	Human
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Source	HEK293
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ProteinLength	20-152 aa
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Description	Interleukin 3 is also known as IL-3, is a protein that in humans is encoded by the IL3 gene. Interleukin-3 (IL-3) is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. The IL-3 receptor is a heterodimer of the IL-3 specific α-chain and the common β-chain, β_c, which is also used by GM-CSF and IL-5. Binding of IL-3 can also involve substitution of the β_c by a β_{IL-3}-chain that appears to be specific for IL-3. Binding of IL-3 to its cognate receptor(s) induces activation of Jak2, phosphorylation of multiple Stats, and the PI3K/Akt pathway. IL-3 may play an important role in the development of airway inflammation associated with asthma. The human IL-3 gene encodes a protein 152 amino acids long, and the naturally occurring IL-3 is glycosylated. The human IL-3 gene is located on chromosome 5, only 9 kilobases from the GM-CSF gene, and its function is quite similar to GM-CSF.
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Specificity	Sterility: Negative
Bio-activity	Immobilized Human IL-3 Protein, His Tag at 5 µg/mL (100 µL/well) can bind Human IL-3 R alpha Protein, Llama IgG2b Fc Tag with a linear range of 0.039-2.5 µg/mL.
Molecular Mass	The protein has a calculated MW of 17.0 kDa. The protein migrates as 25-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.3 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL3 interleukin 3 (colony-stimulating factor, multiple) [Homo sapiens (human)]
Official Symbol	IL3
Synonyms	IL3; interleukin 3 (colony-stimulating factor, multiple); interleukin-3; hematopoietic growth factor; IL 3; mast cell growth factor; MCGF; MGC79398; MGC79399; MULTI

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CSF; multilineage colony stimulating factor; P cell stimulating factor; mast-cell growth factor; P-cell stimulating factor; P-cell-stimulating factor; multilineage-colony-stimulating factor; multipotential colony-stimulating factor; IL-3; MULTI-CSF;

Gene ID [3562](#)

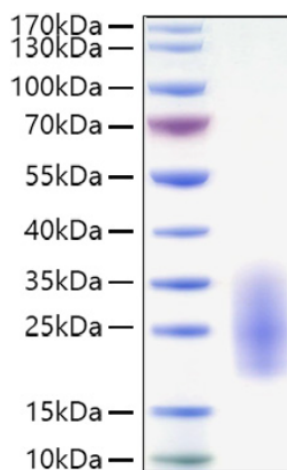
mRNA Refseq [NM_000588](#)

Protein Refseq [NP_000579](#)

MIM [147740](#)

UniProt ID [P08700](#)

SDS-PAGE.



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