

Recombinant Human IL5 protein

Cat. No. IL5-61H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL5 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	116
Description	The IL-5 gene is located on chromosome 5 in humans, in close proximity to the genes encoding IL-3, IL-4, and granulocyte-macrophage colony-stimulating factor (GM-CSF), which are often co-expressed in TH2 cells. Through binding to the IL-5 receptor, IL-5 stimulates B cell growth and increases immunoglobulin secretion. It is also a key mediator in eosinophil activation. Interleukin-5 has long been associated with the cause of several allergic diseases including allergic rhinitis and asthma. IL-5 is a 115-amino acid (in human, 133 in the mouse) -long TH2 cytokine that is part of the hematopoietic family. Unlike other members of this cytokine family (namely IL-3 and GM-CSF), this glycoprotein in its active form is a homodimer.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.5, 3 % trehalose, 0.1 % Tween-80.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 0.1 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^7$ IU/mg.

 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

Molecular Mass	Approximately 26.5 kDa, a disulfide-linked homodimeric protein containing two 116 amino acids.
AA Sequence	MIPTEIPTSALVKETLALLSTHRTLIIANETLRIPVPVHKNHQLCTEEIFQGIGTLESQTV QGGTVERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYQLQEFLGVMNTEWIIES
Endotoxin	Less than 1 EU/g of rHuIL-5 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL5
Official Symbol	IL5
Synonyms	IL5; interleukin 5 (colony-stimulating factor, eosinophil); interleukin-5; B cell differentiation factor I; EDF; eosinophil differentiation factor; IL 5; interleukin 5; T cell replacing factor; TRF; T-cell replacing factor; B-cell differentiation factor I; IL-5;

 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

Gene ID	3567
mRNA Refseq	NM_000879
Protein Refseq	NP_000870
MIM	147850
UniProt ID	P05113

SDS-PAGE of IL5-61H

