

Recombinant Rhesus IL5 protein

Cat. No. IL5-963R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus IL5 protein was expressed in Escherichia coli.
Species	Rhesus macaque
Source	E.coli
ProteinLength	115
Description	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 rhesus macaque, 133 in the murine) -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 PBS, pH 7.4, with 5 % Trehalose.
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 5 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^5$ IU/mg.
Molecular Mass	Approximately 26.1 kDa, a disulfide-linked homodimer of two 115 amino acid polypeptide chains.

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AA Sequence	IPTEIPASALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLESQTVQ GGTVERLFKNLSLIKKYIGGQKKKCGEERRRVNQFLDYQLQEFLGVMNTEWIIES
Endotoxin	Less than 0.1 EU/g of rRhIL-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	Eosinophil differentiation factor, TRF
Gene ID	710622
mRNA Refseq	NM_001361250.1
Protein Refseq	NP_001348179.1

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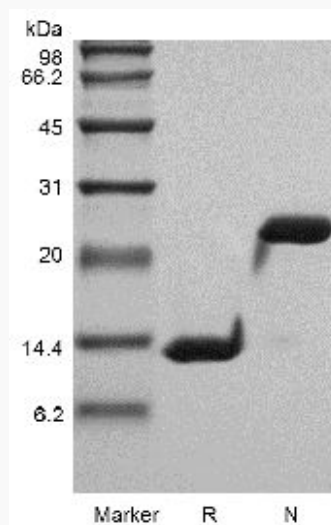
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UniProt ID

P48093

SDS-PAGE of IL5-
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