# IL-5 Mouse Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | IL-5, Recombinant Protein |
| **Full Product Name** | Recombinant Mouse IL-5 |
| **Product Gene Name** | IL-5 recombinant protein |
| **Product Synonym Names** | EDF; IL 5; IL5; IL-5; Interleukin 5; T cell replacing factor |
| **Host** | HEK293 cells |
| **Form/Format** | Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose, pH7.4 |
| **Purity/Purification** | Greater than 95% as determined by SDS-PAGE |
| **Preparation and Storage** | The lyophilized protein is stable at -20 degree C for up to 1 year, the protein solution can be stored at 2-8 degree C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing 0.1% BSA (make sure BSA will NOT interfere with your experiment) and store in working aliquots at -20 degree C to -80 degree C for 6 months. Avoid repeated freeze/thaw cycle. |
| **Molecular Weight** | 15,410 Da |
| **Sequence Positions** | 21-133 |
| **3D Structure** | ModBase 3D Structure for P04401 |
| **Species** | Mouse |
| **Tag** | C-terminal His |
| **Reconstitution** | Centrifuge the vial prior to opening, reconstitute in sterile distilled water or buffer of interest to concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for IL-5 recombinant protein** | Western Blot (WB), ELISA (EIA) |
| **Related Product Information for IL-5 recombinant protein** | MBS7617344 is a recombinant protein targeting IL-5. Also known as Recombinant Mouse IL-5. Host: HEK293 cells. |
| **Other Notes** | Small volumes of IL-5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6754336 |
| **NCBI GeneID** | 16191 |
| **NCBI Accession #** | NP_034688.1 |
| **UniProt Primary Accession #** | P04401 |
| **UniProt Related Accession #** | P04401 |
| **GenBank Nucleotide #** | NM_010558.1 |

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| **NCBI Official Full Name** | interleukin-5 |
| **NCBI Official Synonym Full Names** | interleukin 5 |
| **NCBI Official Symbol** | Il5 |
| **NCBI Official Synonym Symbols** | Il-5 |
| **UniProt Protein Name** | Interleukin-5 |
| **UniProt Synonym Protein Names** | B-cell growth factor II; BCGF-II; Cytotoxic T-lymphocyte inducer; Eosinophil differentiation factor; T-cell replacing factor; TRF |
| **UniProt Gene Name** | Il5 |
| **UniProt Synonym Gene Names** | Il-5; IL-5; BCGF-II; TRF |
| **UniProt Entry Name** | IL5_MOUSE |
| **NCBI Protein Information** | interleukin-5; B-cell growth factor II; BCGF-II; T-cell replacing factor; TRF; cytotoxic T-lymphocyte inducer; eosinophil differentiation factor |
| **UniProt Comments for IL-5** | IL5: Factor that induces terminal differentiation of late- developing B-cells to immunoglobulin secreting cells. Belongs to the IL-5 family.<br><br>Protein type: Secreted, signal peptide; Cytokine; Secreted<br><br>Cellular Component: extracellular space; extracellular region<br><br>Molecular Function: interleukin-5 receptor binding; growth factor activity; cytokine activity<br><br>Biological Process: positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of transcription, DNA-dependent; cytokine and chemokine mediated signaling pathway; positive regulation of cell proliferation; positive regulation of B cell proliferation; positive regulation of JAK-STAT cascade; immune response; positive regulation of transcription factor activity; positive regulation of immunoglobulin secretion; positive regulation of eosinophil differentiation |
| **Research Articles on IL-5** | **1.** In mice, low-dose IL-2-anti-IL-2 antibody complexes drove group 2 innate lymphoid cells (ILC2) to produce IL-5 and proliferate. |
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