

## Recombinant Rat IL5 Protein, His-tagged

Cat. No. IL5-1681R    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Product Overview | Recombinant Rat IL5 Protein (Met1-Val132) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Species          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ProteinLength    | Met1-Val132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description      | Enables cytokine activity and interleukin-5 receptor binding activity. Involved in several processes, including positive regulation of B cell proliferation; positive regulation of eosinophil differentiation; and positive regulation of receptor signaling pathway via JAK-STAT. Located in extracellular space. Used to study asthma. Biomarker of several diseases, including allergic rhinitis; esophageal cancer; middle cerebral artery infarction; peptic esophagitis; and prostatic hypertrophy. Human ortholog(s) of this gene implicated in asthma. Orthologous to human IL5 (interleukin 5). |
| Form             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Molecular Mass   | Predicted Molecular Mass: 15.2 kDa<br>Accurate Molecular Mass: 17 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applications     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL5 interleukin 5 [ <i>Rattus norvegicus</i> (Norway rat) ]                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | IL5                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | IL5; interleukin 5; interleukin-5; TRF; IL-5; BCGF-II; B-cell growth factor II; T-cell replacing factor; cytotoxic T-lymphocyte inducer; eosinophil differentiation factor; Interleukin 5 (colony-stimulating factor eosinophil); Interleukin 5 (colony-stimulating factor, eosinophil); |
| <b>Gene ID</b>         | 24497                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_021834                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_068606                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>      | Q08125                                                                                                                                                                                                                                                                                   |

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