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# IL-5

Catalog # PVGS1256

## Product Information

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| **Primary Accession** | Q08125 |
| **Species** | Rat |
| **Sequence** | Met20-Val132 |
| **Purity** | > 95% as analyzed by SDS-PAGE |
| **Endotoxin Level** | |
| **Expression System** | E. coli |
| **Formulation** | Lyophilized after extensive dialysis against 20 mM Tris, pH 8.5. |
| **Reconstitution** | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in $ddH_2O$ up to 100 g/ml. |
| **Storage & Stability** | Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles. |

## Additional Information

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| **Other Names** | Interleukin-5, IL-5, B-cell growth factor II, BCGF-II, Cytotoxic T-lymphocyte inducer, Eosinophil differentiation factor, T-cell replacing factor, TRF, Il5, Il-5 |
| **Target Background** | Interleukin-5 (IL-5), produced by mast cells, T cells and eosinophils, is responsible for the activities attributed to eosinophil differentiating factor, B cell growth factor II and T cell-replacing factor (TRF). It can increase production and mobilization of eosinophils and CD34+ progenitors from the bone marrow. IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release. |

## Protein Information

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| **Name** | Il5 |
| **Synonyms** | Il-5 |
| **Function** | Homodimeric cytokine expressed predominantly by T-lymphocytes and NK |

cells that plays an important role in the survival, differentiation, and chemotaxis of eosinophils (PubMed:10446387). Acts also on activated and resting B-cells to induce immunoglobulin production, growth, and differentiation (By similarity). Mechanistically, exerts its biological effects through a receptor composed of IL5RA subunit and the cytokine receptor common subunit beta/CSF2RB. Binding to the receptor leads to activation of various kinases including LYN, SYK and JAK2 and thereby propagates signals through the RAS-MAPK and JAK-STAT5 pathways respectively (By similarity).

**Cellular Location** Secreted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.