

IL-5 Catalog # PVGS1200

Product Information

Primary Accession Species	P05113 Human
Sequence	Ile20-Ser134, expressed with an N-terminal Met
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level Expression System	E. coli
Formulation Reconstitution	Lyophilized after extensive dialysis against 25 mM Tris, pH 8.0. 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 ₂ O 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

Gene ID	3567
Other Names	Interleukin-5, IL-5, B-cell differentiation factor I, Eosinophil differentiation factor, T-cell replacing factor, TRF, IL5
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

Name	IL5
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:2653458, PubMed:9010276). Also acts 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 (PubMed:1495999, PubMed:22528658).
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 (PubMed:7613138).Cellular LocationSecreted.

Tissue LocationPresent in peripheral blood mononuclear cells.

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