

DATASHEET
Version 20181206**IL-5, Rat****Cat. No.:** Z03093-1**Size:** 1.0 mg**Synonyms:** EDF, BCDFII, TRF**Description:**

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.

Recombinant rat Interleukin-5 (rrIL-5) produced in *E. coli* is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 113 amino acids each. A fully biologically active molecule, rrIL-5 has a molecular mass of 26.0 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 MEIPMSTVVK ETLIQLSTHR ALLTSNETMR LPVPTHKNHQ
00041 LCIGEIFQGL DILKNQTVRG GTVEILFQNL SLIKKYIDGQ
00081 KEKCGEERRK TRHFLDYLQE FLGVMSTEW MEV

Source: *E. coli***Species:** Rat**Biological Activity:** ED₅₀ < 0.4 ng/mL, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 2.5 × 10⁶ units/mg.**Molecular Weight:** 26.0 kDa, observed by non-reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against 20mM Tris, pH8.5.**Reconstitution:** Reconstituted in ddH₂O at 100 µg/mL.**Purity:** > 95% by SDS-PAGE analysis.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant rat Interleukin-5 (rrIL-5) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rrIL-5 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.