

DATASHEET
Version 20181206**IL-5, Mouse****Cat. No.:** Z02998-10**Size:** 10.0 ug**Synonyms:** EDF,BCDFII,TRF**Description:**

Interleukin-5 (rmIL-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 mouse Interleukin-5 (rmIL-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, rmIL-5 has a molecular mass of 26.2kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ
00041 LCIGEIFQGL DILKNQTVRG GTVEMLFQNL SLIKKYIDRQ
00081 KEKCGEERRR TRQFLDYLQE FLGVMSTEWA MEG

Source: *E. coli***Species:** Mouse**Biological Activity:** ED₅₀ < 2.0 ng/ml, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 5.0 × 10⁵ units/mg.**Molecular Weight:** 26.2kDa, observed by non-reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O at 100 µg/ml.**Purity:** > 95% by SDS-PAGE and HPLC analyses.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant mouse Interleukin-5 (rmIL-5) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmIL-5 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.