

IL-5, Mouse(CHO-expressed)

Cat. No.: Z02995-10

Size: 10.0 ug

Synonyms: EDF, BCDLII, 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 Murine IL-5 is homodimeric protein with molecular weight ranging from 25 to 40 kDa due to glycosylation.

Amino Acid Sequence:

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

Species: Mouse

Biological Activity: ED₅₀ < 0.5 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 2×10⁶ units/mg.

Molecular Weight: 25-40 kDa, observed by non-reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant Murine Interleukin 5 (IL-5) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmlIL-5 should be stable up to 1 week at 4°C or up to 2 months at -20°C.