

## IL-5, Human(CHO-expressed)

**Cat. No.:** Z02981-50

**Size:** 50.0 ug

**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 Human IL-5 is homodimeric protein with molecular weight ranging from 29 to 35 kDa due to glycosylation.

### Amino Acid Sequence:

00001 IPTEIPTSAL VKETLALLST HRTLLIANET LRIPVPVHKN  
00041 HQLCTEEIFQ GIGTLESQTV QGGTVERLFK NLSLIKYYID  
00081 GQKKKCGEER RRVNQFLDYL QEFLGVMNTE WIIES

**Source:** CHO

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 1 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 1×10<sup>6</sup> units/mg.

**Molecular Weight:** 29-35 kDa, observed by non-reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O 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 human Interleukin 5 (rhIL-5) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIL-5 should be stable up to 1 week at 4°C or up to 2 months at -20°C.