

IL-5, Human(CHO-expressed)

Cat. No.: Z02981-1

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

Molecular Weight: 29-35 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 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.