

Overview

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.
Species	Human
Source	CHO
Biological Activity	ED ₅₀ < 1 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 1×10 ⁶ units/mg.
Sequence	<p>IPTEIPTSAL VKETLALLST HRTLLIANET LRIPVPVHKN</p> <p>HQLCTEEIFQ GIGTLESQTV QGGTVERLFK NLSLIKKYID</p> <p>GQKKKCGEER RRVNQFLDYL QEFLGVMNTE WIIES</p>

Properties

Measured Molecular Weight	~29-35 kDa, observed by non-reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
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.
Note	For research use only

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