

IL5

Recombinant Human Interleukin-5

Catalog No.	CRI149A CRI149B CRI149C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	EDF, IL-5, TRF, B-cell differentiation factor I, T-cell replacing factor, eosinophil differentiation factor		
Description:	<p>IL-5 is a cytokine that acts as a growth and differentiation factor for B cells and eosinophils and is a main regulator of eosinopoiesis, eosinophil maturation, and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor for IL-5 is a heterodimer whose beta subunit is shared with the receptors for IL-3 and colony stimulating factor 2 (CSF2 / GM-CSF).</p> <p>Recombinant human IL-5 is a non-glycosylated homodimer with each polypeptide chain containing 132 amino acids.</p>		
Gene ID:	3567		
Source:	<i>E. coli</i>		
Molecular Weight:	26.5 kDa		
Formulation:	Lyophilized from a concentrated (1 mg/ml) solution in 5 mM Tris, pH 7.2.		
Purity:	>97.0% as determined by HPLC and SDS-PAGE		
Biological Activity:	Recombinant human IL-5 is fully biologically active when compared to standards. The ED ₅₀ as determined by the dose-dependant stimulation of the proliferation of TF-1 cells was found to be <0.15 ng/ml.		
Specific Activity:	6 x 10 ⁶ IU/mg		
Amino Acid Sequence:	IPTEIPTSAL VKETLALLST HRTLLIANET LRIPVPVHKN HQLCTEEIFQ GIGTLESQTV QGGTVERLFK NLSLIKKYID GQKKKCGEER RRVNQFLDYL QEFLGVMNTE WIIES		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute recombinant human IL-5 in sterile water at a concentration not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Storage & Stability:	Lyophilized recombinant human IL-5, although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution, recombinant human IL-5 may be stored at 4°C between 2-7 days and for future use, below -20°C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.		

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