9051 Mira Mesa Blvd, #910094
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IL 5 Human

Interleukin-5 Human Recombinant
CYK0336

Product Overview

Name	IL 5 Human
Description	
Interleukin-5 Human Recombinant	
Accession (Primary)	P05113
Synonyms	
EDF, BCDFII, TRF, T-cell replacing factor, Eosinophil differentiation factor, B cell differentiation factor I, IL-5.	
Introduction	
The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine 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 of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.	
Stability	
Lyophilized Interleukin-5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL5 should be stored at 4°C between 2-7 days and for future use below -18°C. Please avoid freeze thaw cycles.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ile-Pro-Thr-Glu.	

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Biological Activity

The ED50 as determined by the dose-dependant stimulation of the proliferation of TF-1 cells was found to be < 0.15ng/ml, corresponding to a Specific Activity of 6 x 10 6 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Interleikin-5 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 5 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05113)