

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 II, IL-5, BCGF-II, Cytotoxic T-lymphocyte inducer, IL5.

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 interleukin 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 containing 20mM Sodium Phosphate and 50mM NaCl pH-7.5.

Stability

Lyophilized Mouse Interleukin-5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse 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 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ LCIGEIFQGL DILKNQTVRG GTVEMLFQNL
SLIKKYIDRQ KEKCGEERRR TRQFLDYLQE FLGVMSTEWA MEG.

Biological Activity

The ED50 as determined by the dose-dependant stimulation of the proliferation of TF-1 cells was found to be 1.7ng/ml, corresponding to a specific activity of 588,235.3IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Mouse Interleikin-5 in sterile 18M²-cm H₂O at a concentration of 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](#))