

IL5 Human, Interleukin-5 Human Recombinant Protein, Sf9

Catalog Number: PROTP05113-1

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.

Overview

Product Name	IL5 Human, Interleukin-5 Human Recombinant Protein, Sf9
Description	Interleukin-5 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 124 amino acids (20-134a.a.) and having a molecular mass of 14.2kDa (Molecular size on SDS-PAGE will appear at approximately 13.5-18kDa). IL5 is expressed with a 6 amino acid His-tag at C-Terminus and purified by proprietary chromatographic techniques.
Size	2ug, 10ug, 0.1mg
Tag	
Form	Sterile filtered colorless solution.
Source	Sf9, Baculovirus cells.
Formulation	IL5 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Concentration

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino Acid Sequence

ADPIPTIPT SALVKETLAL LSTHRTLLIA NETLRIPVPV HKNHQLCTEE IFQGIGTLES QTVQGGTVER LFKNLSLIKK YIDGQKKKCG EERRRVNQFL
DYLQEFLGVM NTEWIIESHH HHHH.

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED₅₀

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