
Product Data Sheet

Product Name: IL5 Human, Sf9
 Cat. No.: GP20508
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EDF; BCDFII; TRF; T-cell replacing factor; Eosinophil differentiation factor; B cell differentiation factor I; IL-5.		
Amino Acid Sequence	ADPIPTIPT SALVKETLAL LSTHRTLLIA NETLRIPVPV HKNHQLCTEE IFQGIGTLES QTVQGGTVER LFKNLSLIKK YIDGQKKKCG EERRRVNQFL DYLQEFLGVM NTEWIIESH HHHH.		
Formulation	IL5 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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.

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 for this effect is less or equal to 1.5 ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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