
Product Data Sheet

Product Name: IL5 Mouse, Sf9

Cat. No.: GP26045

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms interleukin 5, IL, IL-5, B-cell growth factor II, BCGF-II, Cytotoxic T-lymphocyte inducer, Eosinophil differentiation factor, T-cell replacing factor, EDF, TRF, B cell differentiation factor I, IL5.

Amino Acid Sequence MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ LCIGEIFQGL
DILKNQTVRG GTVEMLFQNL SLIKKYIDRQ KEKCGEERRR TRQFLDYLQE
FLGVMSTEWA MEGHHHHHHH

Formulation The IL5 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) 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. IL5 is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of IL5 is reported to be related to asthma or hypereosinophilic syndromes. The receptor of IL5 is a heterodimer, whose beta subunit is shared with the receptors for interleukin 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). IL5, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. IL5, 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 cells. The ED50 range ≤ 1 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

IL5 Mouse produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 119 amino acids (21-133 a.a) and having a molecular mass of 13.9kDa. IL5 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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