
Product Data Sheet

Product Name: IL5 Canine
 Cat. No.: GP26046
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Interleukin-5, IL-5, EDF, TRF, Eosinophil differentiation factor, T-cell replacing factor.		
Amino Acid Sequence	VENPMNRLVA ETLTLLSTHR TWLIGDGNLM IPTPENKNHQ LCIKEVFQGI DTLKNQTAHG EAVDKLFQNL SLIKEHIERQ KKRCAGERWR VTKFLDYLQV FLGVINTEWT PESHHHHHH		
Formulation	The IL5 solution (0.25mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

The protein encoded by IL5 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 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). Interleukin-5, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. Interleukin-5, 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 range \leq 15 ng/ml.

Stability

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

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longer 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 Canine produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 119 amino acids (22-134 aa) and having a molecular mass of 13.9kDa. IL5 is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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