
Product Data Sheet

Product Name: IL 13 Rat
Cat. No.: GP20562
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	NC300; ALRH; BHR1; P600; IL-13.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 13 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein (1mg/ml) was lyophilized with no additives.		

Introduction

IL13 is an immunoregulatory cytokine produced primarily by activated Th2 cells. IL-13 is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4.

Biological Activity

ED50 range = 2-6 ng/mL as determined by the dose dependent proliferation of human TF-1 cells. Optimal concentration for individual application should be determined by a dose response assay.

Stability

Lyophilized Interleukin-13 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL13 should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is

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recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Interleukin-13 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 113 amino acids and having a molecular mass of 12.7 kDa. The IL-13 is purified by proprietary chromatographic techniques.

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