
Product Data Sheet

Product Name: IL 13 Mouse
 Cat. No.: GP20561
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-13; NC300; ALRH; BHR1; P600; IL-13; IL13.		
Amino Acid Sequence	MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F.		
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 in PBS, pH 7.2 and 5% trehalose.		

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

The ED50 range=4 ng/ml, corresponding to a specific activity of 250,000IU/mg as determined by the dose dependent proliferation of TF-1 cells.

Stability

Lyophilized Interleukin-13 although stable at room temperature for 3 weeks, should be

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

Background

Interleukin-13 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 111 amino acids and having a molecular mass of 12.3 kDa. The IL-13 is purified by proprietary chromatographic techniques.

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