
Product Data Sheet

Product Name: IL 13 Human
 Cat. No.: GP20558
 Batch No.: 1

Product Data

Purity Greater than 95% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. Source Escherichia

Physical Appearance Sterile Filtered White lyophilized (freeze-dried) powder. Shipping Condition Shipped at 1

Synonyms NC30; ALRH; BHR1; P600; IL-13; MGC116786; MGC116788; MGC116789.

Amino Acid Sequence GVPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALESINVS GC SAI EKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLLH

Solubility It is recommended to reconstitute the lyophilized Interleukin 13 in sterile 18MQ-cm H2O not less than 100µg/ml, which can then be diluted to other aqueous solutions.

Formulation The protein (1mg/ml) was lyophilized with 1xPBS pH-7.2 & 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 was determined by the dose dependent proliferation of TF-1 cells and was found to be < 1ng/ml, corresponding to a specific activity of >1 x 106units/mg.

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

Background

Interleukin-13 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 112 amino acids and having a molecular mass of 12 kDa. The IL-13 is purified by proprietary chromatographic techniques.

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

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