



Interleukin-13, mouse recombinant (rmIL-13)

Catalog No: 87342
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interleukin-13, NC300, ALRH, BHR1, P600, IL-13, IL13

Background

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.

Description

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. IL-13 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein (1 mg/ml) was lyophilized in PBS, pH 7.2 and 5% trehalose.

Solubility

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

Stability

Lyophilized Interleukin-13, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-13 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.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and found to be Met-Pro-Val-Pro-Arg.

Activity

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

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