9051 Mira Mesa Blvd, #910094
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IL 13 Rat 109 a.a.

Interleukin-13 109 a.a. Rat Recombinant
CYK0251

Product Overview

Name	IL 13 Rat 109 a.a.
Description	
Interleukin-13 109 a.a. Rat Recombinant	
Accession (Primary)	P42203
Synonyms	
NC300, ALRH, BHR1, P600, IL-13.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein (1mg/ml) was lyophilized in PBS, pH7.4.	
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.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	
VRRSTSPPVA LRELIEELSN ITQDQKTSLC NSSIVWSVDI TAGGFCAALE SLTNISSCNA IHRTQRILNG LCNQKASDVA SSPPDTKIEV AQFISKLLNY SKQLFRYGH.	

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Biological Activity

ED 50 range = 40ng/ml, corresponding to a specific activity of > 25,000IU/mg 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.

Solubility

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

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.69 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IL-13 as a Reference Standard.

Precautions

IL 13 Rat 109 a.a. is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P42203)