

32-1450: mL 13 Recombinant Protein

Alternative Name : Interleukin-13,NC300,ALRH,BHR1,P600,IL-13,IL13.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	The protein (1mg/ml) was lyophilized in PBS, pH 7.2 and 5% trehalose.
Storage condition :	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.
Amino Acid :	MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F.

Application Note

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