

## Recombinant Murine Interleukin-13 (rm IL-13)

Murine **Interleukin-13** is an immunoregulatory cytokine produced primarily by activated Th2 cells. IL-13 is involved in several stages of B-cell maturation and differentiation. It regulates CD23 and MHC class II expression up and promotes IgE isotype switching of B cells. IL-13 regulates macrophage activity down by inhibiting thereby the production of pro-inflammatory cytokines and chemokines. IL-13 is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL-3, IL-4, IL-5 and GM-CSF form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL-4.

**Recombinant murine IL-13** produced in E.Coli is a single, non-glycosylated polypeptide chain containing 110 amino acids and having a molecular mass of 12 kDa. The rm IL-13 is purified by proprietary chromatographic techniques.

**Synonyms :** NC300, ALRH, BHR1, P600.

**Source:** *Escherichia coli*

**AA Sequence:** MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL  
DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS  
YTKQLFRHGP F

**Formulation:** Lyophilized from a 0.22 µm filtered solution in PBS, pH 7.0

**Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100 µg/ml

**Stability:** The lyophilized protein although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rm 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.

**Biological Activity:** The biological activity was determined by dose-dependent stimulation of TF-1 proliferation. The ED<sub>50</sub> was found to be < 4 ng/ml corresponding to a specific activity of 2.4 x 10<sup>5</sup> units/mg.

**Purity:** Greater than 95.0% as determined by SDS-PAGE

**Endotoxicity:** The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

**Order N°:** rm IL-13 +Size  
available sizes: 2 µg, 10 µg, 50 µg

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