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# 32-1453: rmIL 13 Recombinant Protein

**Alternative Name :** NC30,ALRH,BHR1,P600,IL-13,MGC116786,MGC116788,MGC116789.

## Description

Source : Escherichia Coli. IL 13 Rhesus Macaque Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 114 amino acids and having a molecular mass of 12.6kDa.The IL 13 Rhesus Macaque 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

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| **Amount :** | 10 µg |
| **Purification :** | Greater than 97.0% as determined by SDS-PAGE and HPLC analyses. |
| **Content :** | Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4 containing 5% trehalose. |
| **Storage condition :** | Lyophilized IL-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.Please prevent freeze-thaw cycles. |
| **Amino Acid :** | SPSPVPRSTA LKELIEELVN ITQNQKAPLC NGSMVWSINL TAGVYCAALE SLINVSGCSA IEKTQRMLNG FCPHKVSAGQ FSSLRVRDTK IEVAQFVKDL LVHLKKLFRE GRFN |

## Application Note

It is recommended to reconstitute the lyophilized IL-13 in sterile 18M-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependent proliferation of TF-1 cells was < 1.0 ng/ml, corresponding to a specific activity of > 1Ã□â□□1,000,000 units/mg.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***