

## 32-20367: Animal-Free Recombinant Human IL-13(Discontinued)

**Reactivity :** Human, Mouse  
**Alternative Name :** NC30 (Human), P600 (Murine)

### Description

**Source:** *E.coli* IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1 $\beta$ , TNF- $\alpha$ , IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching, resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and murine IL-13 are cross-species reactive. Recombinant Human IL-13 is a 12.6 kDa protein consisting of 115 amino acid residues.

### Product Info

**Amount :** 2  $\mu$ g / 10  $\mu$ g  
**Purification :** Purity:  $\geq$  98% by SDS-PAGE gel and HPLC analyses.  
**Content :** This recombinant protein is supplied in lyophilized form.  
**Amino Acid :** MSPGPVPPST ALRELIEELV NITQNQKAPL CNGSMVWSIN LTAGMYCAAL ESLINVSGCS AIEKTQRMLS  
GFCPHKVSAG QFSSLHVRDT KIEVAQFVKD LLLHLKKLFR EGRFN

### Application Note

Determined by its ability to stimulate the proliferation of human TF-1 cells. The expected  $ED_{50}$  is  $\leq$  1.0 ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^6$  units/mg.