

## 32-12175: Human Interleukin-13

**Gene :** IL13  
**Gene ID :** 3596  
**Uniprot ID :** P35225  
**Alternative Name :** NC30

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 12.6 kDa (115 aa)

Interleukin 13 (IL-13) is a cytokine secreted from type 2 T helper (Th2) cells. IL-13 has overlapping functions with interleukin 4 (IL-4), including the induction of immunoglobulin E (IgE) secretion from B cells, and the inhibition of interleukin 1 beta (IL-1beta), tumor necrosis factor alpha (TNF-alpha), interleukin 8 (IL-8), and interleukin 6 (IL-6) inflammatory cytokine expression. IL-13 also regulates immune cell inflammation in response to the pathophysiological changes of surrounding non-immune cells. The IL-13 receptor consists of the IL-4Ra and IL-13Ra1 subunits. IL-13 can also bind the IL-13Ra2 receptor with high affinity. IL-13 functions are mediated through the JAK/STAT signaling pathway. Human and mouse IL-13 are cross-reactive.

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at >= 95%  
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, pH 3.0  
Sterile 10 mM HCl at 0.1 mg/mL  
**Storage condition :** Store at -20°C  
**Amino Acid :** MSPGPVPPST ALRELIEELV NITQNQKAPL CNGSMVWSIN LTAGMYCAAL ESLINVSGCS AIEKTQRMLS  
GFCPHKVSAG QFSSLHVRDT KIEVAQFVKD LLLHLKKLFR EGQFN

### Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by TF-1 cell proliferation at <=5 ng/mL; >= 2.0 x 10<sup>5</sup> units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



