

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 β , TNF- α , 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 μ g / 10 μ 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 LLLHLKLLFR 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.