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32-20371: Recombinant Human IL-13 Variant(Discontinued)

Reactivity : Human, Mouse
Alternative Name :

Description

Source:E.coliIL-13 is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells.Â 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.Â IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1Beta, TNF-Alpha, IL-6 and IL-8.Â IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching, resulting in increased production of IgE.Â Blocking of IL-13 activity inhibits the pathophysiology of asthma.Â Human and murine IL-13 are cross-species reactive.Â A variant of IL-13 shows enhanced functional activity compared with the wild type IL-13. The genetic variant, termed Recombinant Human IL-13 Variant, is a mature 115 amino acid protein with a substitution of Q for R at position 112. Â The calculated molecular weight of Recombinant Human IL-13 Variant is 12.6 kDa.

Product Info

Amount : 2 µg / 10 µg
Purification : Purity: >= 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 EGQFN

Application Note

This IL-13 analog shows a two fold increase, relative to wild type IL-13, in bioactivity as measured by theÃ□Â in-vitrodose dependent activation of STAT6 and IL-13 dependent gene induction in transfected A201.1 cells. This analog has also been shown to exhibit increasedÃ□Â in vivoÃ□Â activity compared to wild type IL-13, as measured by the induction of airway hyper-responsiveness.

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