

32-20369: Recombinant Rat IL-13 (109 a.a.)(Discontinued)

Reactivity : Human, Rat
Alternative Name : NC300 (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 Rat IL-13 is an 11.9 kDa protein consisting of 109 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 : VRRSTSPVA LRELIEELSN ITQDQKTS LC NSSIVWSVDI TAGGFCAALE SLTNISSCNA IHRTQIRLNG
LCNQKASDVA SSPPDTKIEV AQFISKLLNY SKQLFRYGH

Application Note

The ED_{50} as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells is < 40 ng/ml, corresponding to a specific activity of $> 2.5 \times 10^4$ units/mg.