
Human IL-13 Recombinant Protein

Catalog Number: 14-8139

Also Known As: Interleukin-13, IL13

RUO: For Research Use Only

Product Information

Contents: Human IL-13 Recombinant Protein

REF Catalog Number: 14-8139

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli expressed amino acids Gly 21-Leu 132 of mature human IL-13 (accession #NM_002188).


Molecular Mass: The protein is not methionylated at the N-terminal and has a predicted molecular mass of 10,591. The DTT reduced protein migrates as a 9 kDa polypeptide on SDS-PAGE and the non-reduced protein migrates with slightly greater mobility.

Purity: Greater than 98%, as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Measured by human TF-1 cell proliferation assay. The ED₅₀ is typically 1.0-5.0 ng/ml, corresponding to a specific activity of 0.2-1.0 x 10⁶ Units/mg.

Formulation: Sterile liquid; 10 mM sodium phosphate, pH 7.2, 150 mM NaCl, with 0.5% BSA. 0.22 µm filtered.

 Temperature Limitation: Store at less than or equal to -70°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

Description

Human interleukin-13 (IL-13), also known as NC30, is a 12.5 kDa protein secreted by activated T helper cells, CD8⁺ T cells, and NK cells. The biological activities of IL-13 include suppression of macrophage cytotoxic activity, upregulation of IL-1RA expression and suppression of inflammatory cytokine expression.

Applications Tested

This recombinant human IL-13 has been tested by a sandwich ELISA using the anti-human IL-13 ELISA antibody pair (PVM13-1 / polyclonal anti-human IL-13), and in bioassays using the IL-13 responsive cell line TF-1. The ED₅₀ as determined by the dose-dependent proliferation of TF-1 cells is typically 1.0-5.0 ng/ml, corresponding to a specific activity of 0.2-1.0 x 10⁶ Units/mg.

Related Products

00-4202 ELISA Diluent Solution (5X)

13-7138 Anti-Human IL-13 Biotin (Polyclonal)

14-7139 Anti-Human IL-13 Purified (PVM13-1)

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

88-7439 Human IL-13 ELISA Ready-SET-Go!®

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