

Product Information

Contents: Carrier-Free Recombinant Human IL-13 (Interleukin-13)

Catalog Number: 34-8139

Sizes: 100 ug, 500 ug

Formulation: Sterile liquid; 10 mM sodium phosphate, pH 7.2, 150 mM NaCl, with no carriers or preservatives. 0.22 µm filtered.

Storage Conditions: For greatest stability, keep concentration of primary stock at or above 10 µg/ml. For long term storage, aliquot into polypropylene vials (volumes of 20 µl or greater) and store at or below -80°C. Avoid repeated freeze/thaw cycles.

Handling Conditions: For best recovery, always quick-spin vial prior to opening. For dilution of current stock, always include carrier protein (1% BSA or 10% FBS) in the buffered saline diluent.

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 10E6 Units/mg.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-8139	Human IL-13 Recombinant Protein	N/A	N/A	BA ELISA
34-8139	Human IL-13 Recombinant Protein Carrier-Free	N/A	N/A	BA ELISA
39-8139	Human IL-13 Single-Use ELISA RSG Standard	N/A	N/A	ELISA

Flow Cytometry Product Notes:

Test Sizes: To accommodate multicolor flow cytometry, eBioscience is in the process of reducing test size volumes from 20 µl to 5 µl. Please check your antibody vial for the recommended test size.

Fluorochrome Replacements: eBioscience is in the process of replacing all Pacific Blue® and APC-Alexa Fluor® 750 conjugated products with eFluor™ 450 and APC-eFluor™ 780 conjugated products, respectively.

Custom Product Requests

Need a custom product? Download the Custom Product Request Form and submit completed form to customs@ebioscience.com.

Questions? Please consult our answers to frequently asked questions at <http://www.ebioscience.com/faq>.

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 Reported

For research use only, not for diagnostic or therapeutic use.

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.

