

Datasheet for ABIN2667459
IL-13 Protein (AA 21-132)



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Overview

Quantity:	4 pack
Target:	IL-13 (IL13)
Protein Characteristics:	AA 21-132
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	ELISA, Intracellular Flow Cytometry (ICFC)

Product Details

Target Details

Target:	IL-13 (IL13)
Alternative Name:	IL-13 (IL13 Products)
Background:	Human IL-13 was initially cloned from cDNA libraries of activated T cells. IL-13 is an immunoregulatory cytokine secreted predominantly by activated Th2 cells, and it is a key mediator in the pathogenesis of allergic inflammation. IL-13 shares many functional properties with IL-4, and they share a common receptor subunit, the alpha subunit of the IL-4 receptor (IL-4Ralpha). IL-13 mediates its effects by interacting with a complex receptor system comprised of IL-4Ralpha and two IL-13 binding proteins, IL-13Ralpha1 and IL-13Ralpha2. Ligation of the IL-13 receptor complex results in signaling via the insulin receptor substrate (IRS)-1 and 2 and STAD-6 pathways. Interleukin-13 (IL-13), like IL-4, is a cytokine produced by T(H)2 type helper T cells in response to signaling through the T cell antigen receptor and by mast cells and

Target Details

basophils upon cross-linkage of the high-affinity receptor for immunoglobulin E (IgE). IL-13 has been implicated in airway hypersensitivity and mucus hypersecretion, inflammatory bowel disease, and parasitic nematode expulsion.

Pathways: [JAK-STAT Signaling](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Proton Transport](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.,Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Prior to use, reconstitute the lyophilized powder with 0.2 mL of PBS containing a carrier protein (e.g., 1 % BSA, protease free), pH 7.4. Re-cap vial, vortex. Allow the reconstituted standard to sit at room temperature for 15 minutes, vortex again to mix completely. The reconstituted standard stock solution can be aliquoted into polypropylene vials and stored at -70 °C for up to one month.

Buffer: Lyophilized in sterile-filtered PBS, pH 7.2, containing 1 % BSA.

Handling Advice: Use a manual defrost freezer and avoid repeated freeze thaw cycles.

Storage: 4 °C

Storage Comment: Upon receipt, store unopened vials between 2°C and 8°C immediately and use within 12 months from date of receipt.

Expiry Date: 12 months