Recombinant human IL13

Catalog No: #AG0010

Description



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Decomption	
Product Name	Recombinant human IL13
Host Species	HEK293
Purification	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC
Immunogen Description	Leu25-Asn146
Target Name	IL13
Other Names	Human IL-13, h-IL-13, rh-IL-13, recombinant IL-13, interleukin-13
Accession No.	Uniprot:P35225Gene ID:3596
Uniprot	P35225
GenelD	3596
Target Species	human
Calculated MW	13.3 KDa
Tag Info	addtional amino acid free
Formulation	0.22 µm filtered solution of PBS, pH 7.4.
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

Background

Interleukin-13 (IL-13) is a monomeric 17 kDa immunoregulatory cytokine that plays a key role in the pathogenesis of allergy, cancer, and tissue fibrosis. It is secreted by several helper T cell subsets, NK cells, mast cells, eosinophils, basophils, and visceral smooth muscle cells (1?3). Mature human IL-13 shares approximately 58%? amino acid sequence identity with mouse and rat IL-13. Despite the low homology, it exhibits cross?species activity between human, mouse, and rat (4). IL-13 suppresses the production of proinflammatory cytokines and other cytotoxic substances by macrophages, fibroblasts, and endothelial cells. On B cells, it promotes cellular activation, immunoglobulin class switching to IgE, and the up?regulation of CD23/Fc epsilon RII (1,?5). IL-13 binds with low affinity to the transmembrane IL-13 R alpha 1 which then forms a signaling complex with the transmembrane IL-4 R alpha (6?8). This high affinity receptor complex also functions as the type 2 IL-4 receptor (6,?7). IL?13?R alpha 2 inhibits responses to both IL-13 and IL-4. It binds IL-13 with high affinity (9, 10) and prevents IL-13 from signaling through the IL-13 R alpha 1/IL-4 R alpha complex (11,?12). It also blocks signaling through IL-4-occupied IL-13 R alpha 1/IL-4 R alpha receptor complexes (12, 13). In addition, IL-13-bound IL-13 R alpha 2 can directly promote tumor cell invasiveness and the development of tissue fibrosis (14?16).

Note: This product is for in vitro research use only