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Datasheet for ABIN1684619

IL13 Receptor alpha 1 Protein (C-Term, Extracellular Domain)

Overview

Quantity:	200 µg
Target:	IL13 Receptor alpha 1 (IL13RA1)
Protein Characteristics:	C-Term, Extracellular Domain
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Specificity:	Optimized DNA sequence encoding extracellular domain of human IL-13 receptor alpha 1 including a C terminal His tag and Fc tag was expressed in HEK293 cells.
Characteristics:	Recombinant IL-13RA1 is a homodimer protein consisting of two 570 amino acid residue subunits, due to glycosylation migrates as an approximately 90kDa protein on SDS-PAGE.
Purity:	> 98 %, as determined by SDS-PAGE and HPLC
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/µg(1EU/µg).

Target Details

Target:	IL13 Receptor alpha 1 (IL13RA1)
Alternative Name:	IL13RA1 (IL13RA1 Products)

Target Details

Background: Thrombopoietin TPO, known also as TSF (thrombopoiesis stimulating factor), for mediator substances that function as natural stimulators of megakaryocytopoiesis and thus, promote the differentiation of platelets. TPO stimulates an increase in the sizes and numbers of megakaryocytes. It also increases the number of small acetyl-cholinesterase positive cells that are early precursor cells of the megakaryocytic lineage. TPO is a protein of 332 amino acids that shows significant homology with Epo (erythropoietin) in its N-terminal domain. A comparison of human and porcine TPO sequences shows 83 % identity between the erythropoietin-like domains but only 67 % between the C-terminal domains.

UniProt: [P78552](#)

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

Application Details

Comment: The activity was tested by immobilized recombinant human IL-13 (4 µg/mL) ability to bind recombinant human IL-13RA1 with a linear range of 0.1-2.5 µg/mL in functional ELISA.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS solution, pH7.2

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: The lyophilized protein is stable for at least years from date of receipt at -20 °C. Upon reconstitution, this cytokine can be stored in working aliquots at -8 °C for one month, or at -20 °C for six months, with a carrier protein without detectable loss of activity.

Expiry Date: 12-24 months