

Datasheet for ABIN7505758
IL-13 Protein (AA 1-131) (His tag)



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Overview

Quantity:	100 µg
Target:	IL-13 (IL13)
Protein Characteristics:	AA 1-131
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-13 protein is labelled with His tag.

Product Details

Sequence:	Met1-Phe131
Characteristics:	A DNA sequence encoding the Mouse IL13 protein (P20109) (1-131) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	IL-13 (IL13)
Alternative Name:	Interleukin-13 (IL13 Products)
Background:	Abbreviation: Interleukin-13,IL-13 Target Synonym: Interleukin-13,IL-13,T-Cell Activation Protein P600,IL13,IL-13 Background: Mouse interleukin 13 (mIL-13) is a pleiotropic cytokine produced by activated Th2 cells. IL-13 induces B cell proliferation and immunoglobulin production. It contains a four helical

Target Details

bundle with two internal disulfide bonds. Mouse IL13 shares 58 % sequence identity with human protein and exhibits cross-species activity. IL13 signals via receptor IL13R (type2, IL4R) and activates STAT-6. IL13 initially binds IL-13R α 1 with low affinity and triggers association of IL4R α , generating a high affinity heterodimeric receptor IL13R and eliciting downstream signals. IL13 also binds IL-13R α 2 with high affinity, which plays a role in a negative feedback system of IL13 signaling. IL13 is an important mediator of allergic inflammation and disease.

Molecular Weight: Calculated MW: 14.3 kDa
Observed MW: 25 kDa

UniProt: [P20109](#)

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

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months