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# Datasheet for ABIN7320575

## **IL-13 Protein**





## Overview

Quantity:	50 μg
Target:	IL-13 (IL13)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

## **Product Details**

Purpose:	Recombinant Mouse Interleukin-13/IL-13 Protein (aa 26-131)(Active)
Sequence:	Ser26-Phe131
Characteristics:	Recombinant Mouse Interleukin-13 is produced by our E.coli expression system and the target gene encoding Ser26-Phe131 is expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 1.93 ng/ml.

# **Target Details**

Target:	IL-13 (IL13)
Alternative Name:	Interleukin-13/IL-13 (IL13 Products)

#### **Target Details**

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Background: Mouse interleukin 13 (mIL-13) is a pleiotropic cytokine produced by activated Th2 cells. IL-13 induces B cell proliferation and immunoglobin production. It contains a four helical 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-13Rα1 with low affinity and triggers association of IL4Rα, generating a high affinity heterodimeric receptor IL13R and eliciting downstream signals. IL13 also binds IL-13Rα2 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. Synonym: Interleukin-13, IL-13, T-Cell Activation Protein P600, II13, II-13

Molecular Weight:	11.7 kDa
UniProt:	P20109
Pathways:	JAK-STAT Signaling, Positive Regulation of Immune Effector Process, Production of Molecular

Mediator of Immune Response, Proton Transport

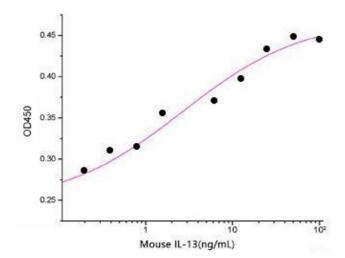
## **Application Details**

Restrictions:

For Research Use only

## Handling

Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.	
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.	



## **ELISA**

Image 1.