

42450. Mouse Interleukin-13 (IL-13)

Origin:	Recombinant	Cat. No.:	42450
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	E.coli	Purity:	>95%
Other names:	IL-13	Species:	Mouse

Description

Expressed in E.coli with total 135 AA. Mw: 15.2 KDa (calculated).

N-terminal 6xHis-tag and TEV cleavage site, 25 extra AA (highlighted). Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

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. 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.

Amino Acid Sequence

**MSYYHHHHHHHDYDIPTTENLYFQGAPVPRSVSLPLTLKELIEELSNITQDQTPLCNGSMVWSV
DLAAGGFCVALDSLNTNISNCNAIYRTQRILHGLCNRKAPTTVSSLPDTKIEVAHFITKLLSYTKQL
FRHGPF**

Endotoxin Level: <0.2 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized at 1 mg/mL in NaCl 500mM, KCl 2.7mM, Na₂HPO₄ 10mM, KH₂PO₄ 1.8mM, pH 7.0.

Reconstitution: Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

Storage: Store lyophilized protein at -20°C. Aliquot reconstituted protein and store at -80°C. Avoid repeated freezing/thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

SDS-PAGE gel
