

IL-13 Protein, Mouse (CHO, His)

Cat. No.:	HY-P7076A
Synonyms:	rMuIL-13, His; P600
Species:	Mouse
Source:	E. coli
Accession:	P20109 (P22-F131)
Gene ID:	16163
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	<p>P V P R S V S L P L T L K E L I E E L S N I T Q D Q T P L C N G S M V W S V D L</p> <p>A A G G F C V A L D S L T N I S N C N A I Y R T Q R I L H G L C N R K A P T T V</p> <p>S S L P D T K I E V A H F I T K L L S Y T K Q L F R H G P F H H H H H H</p>
Biological Activity	The ED ₅₀ is <20 ng/mL as measured by human TF-1 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Interleukin (IL)-13 plays a pivotal role in the pathogenesis of allergic asthma. Passive administration of its monoclonal antibody or soluble receptor to block overproduced IL-13 has been proven to be effective in controlling airway allergic responses in animal models, but these approaches have disadvantages of short half-lives, high costs, and possible adverse effects. IL-13 induces the gene expression of Ca ²⁺ -activating chloride channel, stimulates the differentiation of epithelial cells, and promotes mucin gene expression and release. IL-13 plays a key role in the pathogenesis of asthma ^[1] .
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REFERENCES

[1]. Ma Y, et al. Novel recombinant interleukin-13 peptide-based vaccine reduces airway allergic inflammatory responses in mice. Am J Respir Crit Care Med. 2007 Sep 1;176(5):439-45.

Caution: Product has not been fully validated for medical applications. For research use only.

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