



Recombinant Mouse IL-13

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-071S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	16163
Synonyms:	Il13; IL-13

IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1 β , TNF- α , IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and murine IL-13 is cross-species reactive. Recombinant murine IL-13 is a 12.3 kDa protein consisting of 111 amino acid residues.

Sequence

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MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD  
LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPT  
VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F
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Database References

Protein RefSeq:	NP_032381.1
Uniprot ID:	P20109
mRNA RefSeq:	NM_008355

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	111
MW:	12.3 kDa

Biological Activity: The ED50 as determined by the dose-dependent proliferation of TF-1 cells was < 4.0 ng/ml, corresponding to a specific activity of > 2.5 x 10⁵ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!