

Active Recombinant Mouse Il13 Protein, His-Tagged

Cat. No. Il13-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Il13 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin 13 (IL-13) is a protein that in humans is encoded by the IL13 gene. IL-13 was first cloned in 1993 and is located on chromosome 5q31 with a length of 1.4kb. It has a mass of 13 kDa and folds into 4 alpha helical bundles. The secondary structural features of IL-13 are similar to that of Interleukin 4 (IL-4); however it only has 25% sequence homology to IL-4 and is capable of IL-4 independent signaling. IL-13 is a cytokine secreted by T helper type 2 (Th2) cells, CD4 cells, Natural killer T cell, Mast cell, Basophil cells, Eosinophil cells and Nuocyte cells. Interleukin-13 is a central regulator in IgE synthesis, goblet cell hyperplasia, mucus hypersecretion, airway hyperresponsiveness, fibrosis and chitinase up-regulation. It is a mediator of allergic inflammation and different diseases including asthma.
Form	Lyophilized powder
AA Sequence	MPVPRSVSLPLTLKELIEELSNITQDQTPLCNGSMVWSVDLAAGGFCVALDSLNTNISN CNAIYRTQRILHGLCNRKAPTTVSSLPDTKIEVAHFI TKLLSYTKQLFRHGPF with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.

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Bio-activity	Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is <4 ng/mL. The specific activity of recombinant mouse IL-13 is > 2.5 x 10 ⁵ IU/mg.
Purity	>95% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	IL12 interleukin 12 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL13
Synonyms	IL-13
Gene ID	16163
mRNA Refseq	NM_008355.3
Protein Refseq	NP_032381.1
UniProt ID	P20109

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