

RMCM036

Recombinant IL-13 (Interleukin-13), Mouse , AF



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 5ug;20ug;100ug;500ug;**Synonym/Alternative name(s) :** P600**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 10⁵ IU/mg.

Protein 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.

Protein Accession : P20109.1**Gene ID :** 16163**Expression Sequence:**

MPVPRSVSLPLTLKELIEELS NITQDQTPLCNGSMVWSVDLAAGGFCVALDSL TNISNCNAIYRTQRI LHGLCNRKAPTTVSSLPDTKIEV
AHFITKLLSYTKQLFRHGPF with polyhistidine tag at the C-terminus.

Fusion tag : His-tag?at?the?C-terminus**Species :** Mouse**Reactivity :** Mouse**Expression Host :** Escherichia coli**Source :** E. coli**Purity/method:**

>95% as determined by SDS-PAGE.

Ni-NTA chromatography.

Endotoxin level:

<0.1 EU per 1 µg of the protein by the LAL method.

Calculated Molecular Weight : 13.06 kDa**Formulation:**

The protein was lyophilized from a solution containing 1X PBS, pH 7.4.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

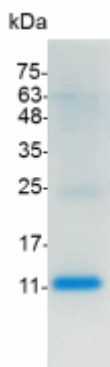
Lyophilized protein should be stored at -20°C for 1 year.

Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:

SDS- PAGE analysis of recombinant mouse IL-13