

Mouse IL-13

research grade

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1. Description

Products	Mouse IL-13, research grade. Recombinant mouse interleukin 13.						
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Content in µg	Order no.						
2	130-094-639						
10	130-094-070						
Biological activity	The ED ₅₀ is ≤4 ng/mL corresponding to an activity of ≥2.5×10 ⁵ U/mg. ▲ Note: The ED ₅₀ is determined by dose-dependent stimulation of the proliferation of human TF-1 cells.						
Primary structure	Single, non-glycosylated polypeptide chain (111 amino acid residues including an N-terminal methionine).						
Molecular mass	12.3 kDa.						
Source	Produced in <i>E. coli</i> .						
Product format	Lyophilized from a filtered (0.2 µm) buffer solution.						
Stabilizer	None.						
Purity	>95% as determined by SDS-PAGE analysis.						
Endotoxin level	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.						
Storage	Lyophilized Mouse IL-13, research grade should be stored at -20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at -20 °C or below. Avoid repeated freeze-thaw cycles.						
Reconstitution	It is recommended to reconstitute lyophilized Mouse IL-13, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 20 µL. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.						

1.1 Background information

IL-13 is an immune regulatory cytokine produced primarily by activated Th2 cells as well as mast cells and NK cells. Signaling through the IL-13 receptor activates the JAK/STAT and IRS-1/IRS-2 pathways. IL-13 has anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory

cytokines such as IL-1β, 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. Although IL-13 is involved in the pathogenesis of airway diseases such as asthma, it also plays a protective role for the mucosa, via induction of matrix metalloproteinases (MMPs) and other anti-inflammatory effects. In addition, IL-13 plays an important role in the expulsion of gastrointestinal parasites.

1.2 Applications

Mouse IL-13 can be used for a variety of applications including:

- Inhibition of monocyte and macrophage activation.
- B cell activation.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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