

Mouse IL-10

research grade

Contents

1. Description

1.1 Background information

1.2 Applications

1. Description

Products	Mouse IL-10, research grade. Recombinant mouse interleukin 10.						
	<table> <tr> <th>Content in µg</th><th>Order no.</th></tr> <tr> <td>2</td><td>130-094-067</td></tr> <tr> <td>10</td><td>130-094-068</td></tr> </table>	Content in µg	Order no.	2	130-094-067	10	130-094-068
Content in µg	Order no.						
2	130-094-067						
10	130-094-068						
Biological activity	The ED ₅₀ is ≤2 ng/mL corresponding to an activity of ≥5×10 ⁵ U/mg. ▲ Note: The ED ₅₀ is determined by dose-dependent co-stimulation with IL-4 of the proliferation of mouse MC/9 cells.						
Primary structure	Single, non-glycosylated polypeptide chain with N-terminal methionine (161 amino acid residues).						
Molecular mass	18.8 kDa.						
Source	Produced in <i>E. coli</i> .						
Product format	Lyophilized from a filtered (0.2 µm) buffer solution.						
Stabilizer	None.						
Purity	>97% 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-10, 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-10, 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-10 is mainly produced by CD4⁺ Th2 cells, regulatory T cells (Treg), Ly-1 B cells, and keratinocytes. IL-10 is regarded as a regulator of the development of Ly-1 B cells and inhibits the synthesis and secretion of many cytokines. Expression of IL-10 in

the islets of Langerhans cells of transgenic mice has been shown to lead to a pronounced inflammation of the pancreas. Knockout mice lacking IL-10 are growth retarded, anemic, and suffer from chronic local bowel inflammations. Like IL-4, it enhances the humoral immune response and lessons cell mediated immune reactions. Mouse IL-10 shares 73% amino acid sequence homology with human IL-10 and is able to block the binding of human IL-10 to mouse cells but not to human cells.

1.2 Applications

Mouse IL-10 can be used for a variety of applications including:

- *In vitro* inhibition of inflammatory cytokine production.
- *In vitro* induction of proliferation and differentiation, in synergy with IL-4.

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

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