

Human IL-1α

research grade

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1. Description

Products	Human IL-1α, research grade. Recombinant human interleukin 1α.						
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Content in µg	Order no.						
2	130-093-893						
10	130-093-894						
Biological activity	The ED ₅₀ is ≤0.001 ng/mL corresponding to an activity of ≥1×10 ³ U/mg. Note: The ED ₅₀ was determined by dose-dependent stimulation of the proliferation of mouse D10S cells.						
Primary structure	Single, non-glycosylated polypeptide chain (159 amino acid residues).						
Molecular mass	18.0 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 Human IL-1α, 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 Human IL-1α, 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

Interleukin 1 alpha (IL-1α) is a cytokine that participates in the regulation of immune responses, inflammatory reactions, and hematopoiesis. IL-1α is produced mainly by activated macrophages as well as neutrophils, epithelial cells, and endothelial cells. It is involved in lymphocyte proliferation, inducing IL-2 release, B cell

maturation and proliferation, and immunoglobulin secretion. In addition, it also plays a role in fibroblasts proliferation.

1.2 Applications

Human IL-1α can be used for a variety of applications including:

- Proliferation of lymphocytes.
- Chemotaxis assays.
- Investigation of IL-1 receptor signaling.

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

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