

Rev03
 Update: Dec,14,2021

DATASHEET

IL-1 α , Rat

Cat. No.: Z03115

Product Introduction

Species	Rat
Protein Construction	IL-1 α (Ala116-Ser270) Accession # P16598-1
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	ED ₅₀ < 5.0 pg/ml, measured in a proliferation assay using D10S cells.
Expression System	CHO
Apparent Molecular Weight	17~22 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : Interleukin-1 alpha (IL-1 α), is produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 alpha and IL-1beta bind to the same receptor and have similar if not identical biological properties. These cytokines have a broad range of activities including stimulation of thymocyte proliferation via IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity, and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1beta is a secreted cytokine, IL-1 alpha is predominantly a cell-associated cytokine.

Synonyms : IL1A; IL-1A; IL1; IL1-ALPHA; IL1F1; interleukin 1 alpha; IL-1 alpha; IL-1 α

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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