Rev03
Update: Dec,14,2021

DATASHEET

IL-1β, Porcine

Cat. No.: Z03278

Product Introduction

Species	Porcine
Protein Construction	Expressed with an N-terminal Met. **IL-1β (Ala115-Pro267) Accession # P26889**
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 1.0 ng/ml, measured by the dose-dependent stimulation of mouse D10S cells, corresponding to a specific activity of 1.0×10^6 IU/mg.
Expression System	E. coli
Apparent Molecular Weight	~17.7 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_2O or PBS up to 100 μg/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 beta (rpIL-1β) is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. IL-1α and IL-1β are structurally related polypeptides that share approximately 27% amino acid (aa) identity in porcine. While IL-1α and IL-1β are regulated independently, they bind to the same receptor and exert identical biological effects. IL-1β stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity.

Synonyms : IL1B; IL-1; IL1-BETA; IL1F2; interleukin 1 beta; IL1beta

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