Rev06
Update: Aug,11,2025

DATASHEET

IL-1β, Rat

Cat. No.: Z03592

Product Introduction

Species	Rat
Protein Construction	IL-1β (Val117-Ser268) Accession # Q63264
Purity	> 96% as analyzed by SDS-PAGE > 96% as analyzed by HPLC
Endotoxin Level	< 1 EU/μg of protein by LAL method
Expression System	E. coli
Theoretical Molecular Weight	17.3 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4, with 5 % trehalose, 0.02 % Tween-20.
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 sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at -20°C or -70°C. Upon reconstitution, the product should be stable for 1 week at 2-8°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Interleukin-1beta (IL-1β) is a non-secreted proinflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. Both IL-1αand IL-1β binds to the same receptor and have similar but not identical biological properties. The mature rat IL1β shares 90 % a.a. sequence identity with cotton rat and mouse and 65 % to 77 % with canine, human,and rhesus IL1β.

Synonyms : Catabolin; Leukocyte Endogenous Mediator; LEM; Lymphocyte-activating factor; LAF; Mononuclear Cell Factor; MCF; Endogenous Pyrogen; EP

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

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-732-885-9188

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-732-885-9188