

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## **DATA SHEET**

# GFH167AF Recombinant Human IL-1 β (Animal-Free)

#### Description

Interleukin-1  $\beta$  (IL-1  $\beta$ ) is a pro-inflammatory cytokine that is produced by monocytes, macrophages, and dendritic cells (DCs). IL-1  $\beta$  signals through the IL-1 receptor, type 1 (IL-1R1) to activate the myeloid differentiation primary response 88 (MYD88) signaling pathway, which contains the cytoplasmic Toll/IL-1 receptor (TIR) domain adapter. IL-1  $\beta$  and the independently regulated IL-1  $\alpha$  protein have overlapping proinflammatory activities to induce adhesion molecule expression on epithelial cells, control fever induction, initiate rheumatoid arthritis, and promote septic shock.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length 154 aa Molecular Weight 17.5 kDa Source E. coli Accession Number P01584

**Purity** ≥95% determined by reducing and non-reducing SDS-PAGE

#### **Specifications**

Alternative Names Interleukin-1  $\beta$ , preinterleukin 1  $\beta$ , IL1, IL 1, catabolin, LAF, EP, LEM, MCF

Biological Activity Human IL-1  $\beta$  (Animal-Free) is fully biologically active when compared to standard. The activity is determined

by the ability to induce D10S cells proliferation and it is typically less than 12 pg/ml. This corresponds to an

expected specific activity of 8.3 x 10<sup>7</sup> units/mg.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

AA Sequence MAPVRSLNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG EESNDKIPVA

LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF VFNKIEINNK LEFESAQFPN

WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

### **Preparation and Storage**

**Reconstitution** Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the

vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized

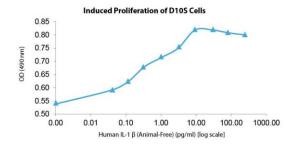
product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

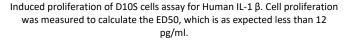
**Stability and Storage** 12 months from date of receipt when stored at -20°C to -80°C as supplied.

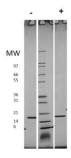
1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

#### Data







Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1  $\mu g$  of protein was loaded in each lane. Human IL-1  $\beta$  has a predicted Mw of 17.5 kDa.