

## Human IL1 beta protein, His tag (active)

**Cat. No. GTX00115-pro****Applications** Functional Assay**Species** Human**Package**

10 µg

## Applications

**Application Note**

Interleukin-1 beta belongs to the interleukin 1 cytokine family, which plays a critical role in inflammation, immunity, antiviral responses, and a variety of diseases. It has been reported that IL-1 $\beta$ -induced IL-6 production is mediated by both PI3K and IRAK4 in A549 cells. To test the bioactivity of IL-1 $\beta$ , A549 cells were seeded into 24-well plate at a density of  $1 \times 10^5$  cells/ml, and allowed to attach overnight before treated with or without certain concentrations (1 ng/ml, 10 ng/ml) of IL-1 $\beta$  for 4h. IL-6 levels in the cell supernatant were determined by ELISA that IL-6 increased significantly after stimulated with IL-1 $\beta$ .

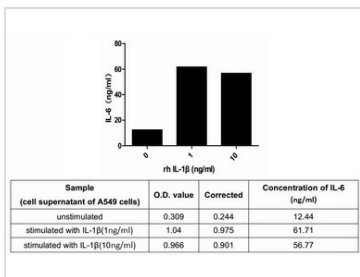
**Observed MW (kDa)** 22 kDa.

## Properties

**Form** Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Ala117~Ser269 (NP\_000567.1)**Expression System** HEK293 cells**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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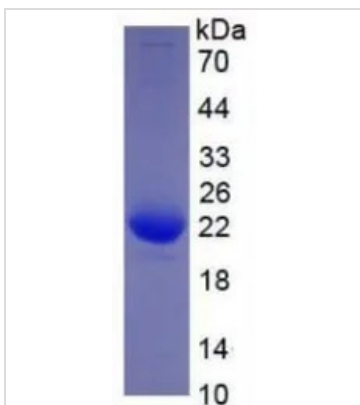
DATA IMAGES



**GTX00115-pro Functional Assay Image**

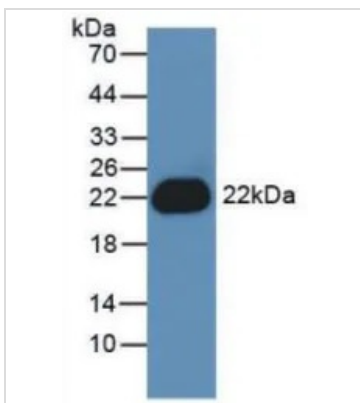
ELISA detection of secreted IL-6 protein activation from A549 cells induced by GTX00115-pro Human IL1 beta protein (active) for 4hrs.

Recombinant protein concentrations: 1, and 10 ng/ml.



**GTX00115-pro Image**

SDS-PAGE analysis of GTX00115-pro Human IL1 beta protein (active).



**GTX00115-pro Image**

WB analysis of GTX00115-pro Human IL1 beta protein (active).



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