

# Recombinant Chicken Interleukin 1, Beta

**Cat. No.** IL1B-589C    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Chicken IL1B is a 23 kDa protein and was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Chicken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | IL1B is a pro-inflammatory cytokine secreted by many different cell types which acts upon a wide range of target cells, resulting in a diverse range of effects. The biological properties of IL1B include the induction of B cell proliferation, stimulation of T cell proliferation in conjunction with IL-2 and the production of collagenase and prostaglandin by fibroblasts. IL1B is also responsible for triggering the acute-phase response in the liver, and is involved in both cytokine network and vascular endothelium activation. |
| <b>Form</b>             | Purified His-tagged recombinant protein expressed in E.coli - liquid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Application</b>      | Functional Assays; In vitro Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Preparation</b>      | Recombinant protein prepared from E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight</b> | approximately 23kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 85% by Nickelate Chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>    | 250 ug/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Storage**

Store at -20oC only. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

**GENE INFORMATION**

**Gene Name** IL1B interleukin 1, beta [ Gallusgallus ]

**Official Symbol** IL1B

**Synonyms** IL1B; interleukin 1,beta; IL1beta; IL-1BETA; interleukin-1 beta; IL-1 beta

**Gene ID** 395196

**mRNA Refseq** NM\_204524

**Protein Refseq** NP\_989855

**Chromosome Location** 22

**Pathway**

Apoptosis;Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Herpes simplex infection; Influenza A; MAPK signaling pathway; Myometrial Relaxation and Contraction Pathways; NOD-like receptor signaling pathway; Salmonella infection; Toll-like receptor signaling pathway

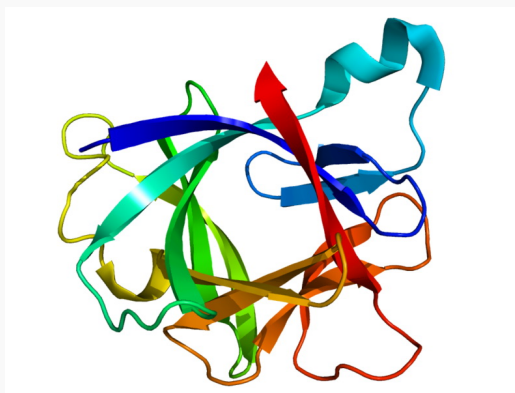
**Function** cytokine activity; interleukin-1 receptor binding; protein domain specific binding

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