

Active Recombinant Chicken IL1B protein, His-tagged

Cat. No. IL1B-1021C Lot. No. (See product label)

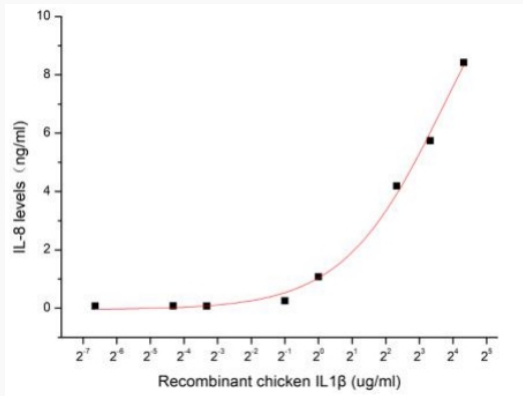
SPECIFICATION

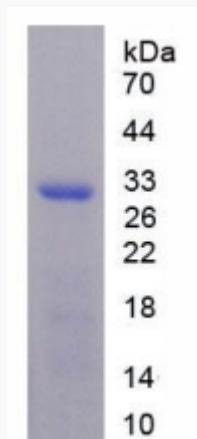
Product Overview	Active Recombinant Chicken IL1B protein(B8YIG5)(13~242 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Chicken
Source	E.coli
ProteinLength	13-242 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interleukin 1 beta (IL-1β) also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor, lymphocyte activating factor and other names, is a member of the interleukin 1 family of cytokines. This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. It has been reported that IL-1β can induced IL-8 production in A549 cells. To test the bioactivity of recombinant chicken IL-1β, A549 cells were seeded into 24-well plate at a density of 1×10^5 cells/mL, and allowed to attach overnight before treated with certain concentrations of recombinant chicken IL-1β for 24h and IL-8 levels in the cell supernatant were determined by ELISA (SEA080Hu). IL-8 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL-1β, the EC50 was 56 ug/ml.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Molecular Mass	25.4kDa																										
Endotoxin	<1.0EU per 1µg (determined by the LAL method).																										
Purity	> 90% as determined by SDS-PAGE.																										
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.																										
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.																										
Activity	 <table border="1"> <caption>Approximate data points from the IL-8 activity graph</caption> <thead> <tr> <th>Recombinant chicken IL1β (ug/ml)</th> <th>IL-8 levels (ng/ml)</th> </tr> </thead> <tbody> <tr><td>2⁻⁷</td><td>0.1</td></tr> <tr><td>2⁻⁶</td><td>0.1</td></tr> <tr><td>2⁻⁵</td><td>0.1</td></tr> <tr><td>2⁻⁴</td><td>0.1</td></tr> <tr><td>2⁻³</td><td>0.1</td></tr> <tr><td>2⁻²</td><td>0.2</td></tr> <tr><td>2⁻¹</td><td>0.5</td></tr> <tr><td>2⁰</td><td>1.2</td></tr> <tr><td>2¹</td><td>2.5</td></tr> <tr><td>2²</td><td>4.2</td></tr> <tr><td>2³</td><td>5.8</td></tr> <tr><td>2⁴</td><td>8.5</td></tr> </tbody> </table>	Recombinant chicken IL1β (ug/ml)	IL-8 levels (ng/ml)	2 ⁻⁷	0.1	2 ⁻⁶	0.1	2 ⁻⁵	0.1	2 ⁻⁴	0.1	2 ⁻³	0.1	2 ⁻²	0.2	2 ⁻¹	0.5	2 ⁰	1.2	2 ¹	2.5	2 ²	4.2	2 ³	5.8	2 ⁴	8.5
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