

Active Recombinant Chicken IL1B protein, His-tagged

Cat. No. IL1B-1782C **Lot. No.** (See product label)

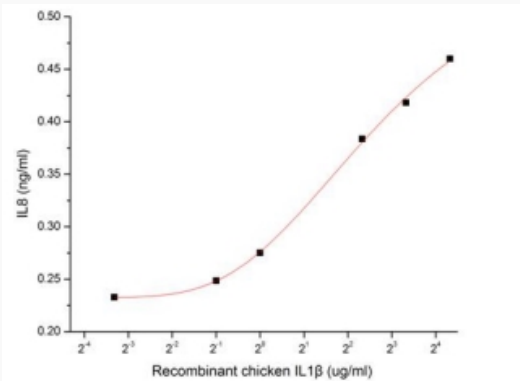
SPECIFICATION

Product Overview	Active Recombinant Chicken IL1B protein(B8YIG5)(110~263 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Chicken
Source	E.coli
ProteinLength	110-263 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 48h 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-1, the EC50 was 5.6 ug/ml.

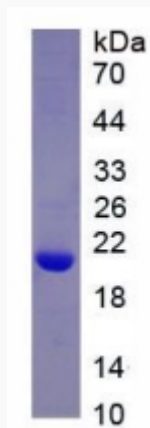
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Molecular Mass	20.9kDa																				
Endotoxin	<1.0EU per 1µg (determined by the LAL method).																				
Purity	> 90% as determined by SDS-PAGE.																				
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. 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 IL8 activity graph</caption> <thead> <tr> <th>Recombinant chicken IL1β (ug/ml)</th> <th>IL8 (ng/ml)</th> </tr> </thead> <tbody> <tr> <td>2⁻⁴</td> <td>0.23</td> </tr> <tr> <td>2⁻³</td> <td>0.24</td> </tr> <tr> <td>2⁻²</td> <td>0.25</td> </tr> <tr> <td>2⁻¹</td> <td>0.27</td> </tr> <tr> <td>2⁰</td> <td>0.38</td> </tr> <tr> <td>2¹</td> <td>0.42</td> </tr> <tr> <td>2²</td> <td>0.46</td> </tr> <tr> <td>2³</td> <td>0.48</td> </tr> <tr> <td>2⁴</td> <td>0.49</td> </tr> </tbody> </table>	Recombinant chicken IL1β (ug/ml)	IL8 (ng/ml)	2 ⁻⁴	0.23	2 ⁻³	0.24	2 ⁻²	0.25	2 ⁻¹	0.27	2 ⁰	0.38	2 ¹	0.42	2 ²	0.46	2 ³	0.48	2 ⁴	0.49
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SDS-PAGE



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