

Active Recombinant Zebrafish il1b protein, His-tagged

Cat. No. il1b-2298Z **Lot. No.** (See product label)

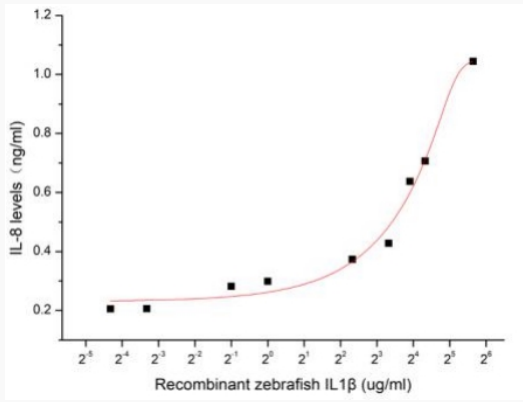
SPECIFICATION

Product Overview	Active Recombinant Zebrafish il1b protein(Q4KMF1)(1~273 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Zebrafish
Source	E.coli
ProteinLength	1-273 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 zebrafish 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 zebrafish 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-1β, the EC50 was 16.86 ug/ml.

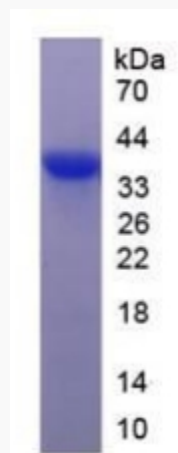
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Molecular Mass	34.1kDa																								
Endotoxin	<1.0EU per 1µg (determined by the LAL method).																								
Purity	> 90% as determined by SDS-PAGE.																								
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C 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 zebrafish IL1β (ug/ml)</th> <th>IL-8 levels (ng/ml)</th> </tr> </thead> <tbody> <tr><td>2⁻⁵</td><td>0.20</td></tr> <tr><td>2⁻⁴</td><td>0.20</td></tr> <tr><td>2⁻³</td><td>0.20</td></tr> <tr><td>2⁻²</td><td>0.25</td></tr> <tr><td>2⁻¹</td><td>0.28</td></tr> <tr><td>2⁰</td><td>0.30</td></tr> <tr><td>2¹</td><td>0.35</td></tr> <tr><td>2²</td><td>0.45</td></tr> <tr><td>2³</td><td>0.65</td></tr> <tr><td>2⁴</td><td>0.85</td></tr> <tr><td>2⁵</td><td>1.05</td></tr> </tbody> </table>	Recombinant zebrafish IL1β (ug/ml)	IL-8 levels (ng/ml)	2 ⁻⁵	0.20	2 ⁻⁴	0.20	2 ⁻³	0.20	2 ⁻²	0.25	2 ⁻¹	0.28	2 ⁰	0.30	2 ¹	0.35	2 ²	0.45	2 ³	0.65	2 ⁴	0.85	2 ⁵	1.05
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SDS-PAGE



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