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APA563Ga02 100µg Active Interleukin 1 Beta (IL1b) Organism Species: *Chicken (Gallus) Instruction manual*

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[PROPERTIES]

Source: Prokaryotic expression. Host: *E. coli* Residues: Ser13~Leu242 Tags: N-terminal His-tag Purity: >90% Traits: Freeze-dried powder Endotoxin Level: <1.0EU per 1µg (determined by the LAL method). Buffer Formulation: PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Original Concentration: 200µg/mL Applications: Cell culture; Activity Assays. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 8.6 Predicted Molecular Mass: 25.4kDa Accurate Molecular Mass: 29kDa as determined by SDS-PAGE reducing conditions.

[<u>USAGE</u>]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

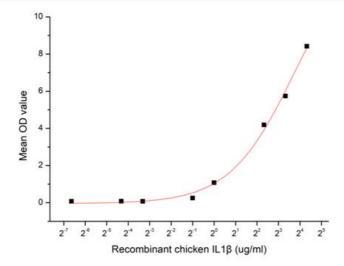
[SEQUENCE]

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[ACTIVITY]

Interleukin 1 beta (IL-1 β) 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-1 β can induced IL-8 production in A549 cells. To test the bioactivity of recombinant chicken IL-1 β , A549 cells were seeded into 24-well plate at a density of 1x10⁵ cells/mL, and allowed to attach overnight before treated with certain concentrations of recombinant chicken IL-1 β 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 β which was shown in Figure1, the EC50 was 56 ug/mI.

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[IDENTIFICATION]

	kDa 70
	44
-	33
	26
2	22
-	18
	14
	10

Figure 2. SDS-PAGE

Sample: Active recombinant IL1b, Gallus

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.