

Active Recombinant Dog IL1b protein, His-tagged

Cat. No. IL1b-563D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Dog IL1b protein(Q28292)(103~260 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Dog
Source	E.coli
ProteinLength	103-260 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-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 dog IL-1 β , 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 dog 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 , the EC50 was 56 ug/ml.

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Molecular Mass	19.3kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 97% 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.

GENE INFORMATION

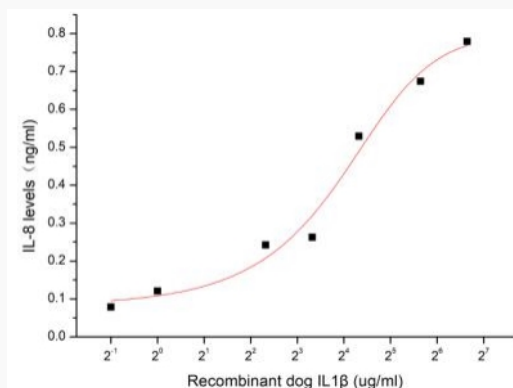
Gene Name	IL1B interleukin 1, beta [<i>Canis lupus familiaris</i>]
Official Symbol	IL1b
Synonyms	IL1B; interleukin 1, beta; interleukin-1 beta; IL-1 beta; interleukin-1 beta proprotein; IL-1;
Gene ID	403974
mRNA Refseq	NM_001037971
Protein Refseq	NP_001033060

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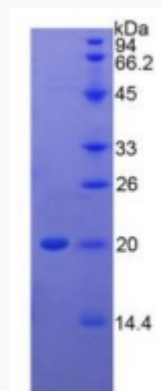
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Activity



SDS-PAGE



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