

Active Recombinant Dog IL6 protein, His-tagged

Cat. No. IL6-1045D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Dog IL6 protein(P41323)(18~207 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Dog
Source	E.coli
ProteinLength	18-207 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interleukin 6 (IL-6) is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine. Interleukin 6 is secreted by T cells and macrophages to stimulate immune response and also plays a role in fighting infection. It supports the growth of B cells and is antagonistic to regulatory T cells. To test the effect of IL6 on cell proliferation, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 20,000 cells/well with various concentrations of recombinant dog IL6. After incubated for 72 hours, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8(CCK-8). Briefly, 10 μ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of TF-1 cells after incubation with IL6 for 72 hours observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8)

 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

assay after incubation with recombinant dog IL6 for 72 hours. It was obvious that recombinant dog IL6 significantly increased cell viability of TF-1 cells, the EC50 was 0.04-0.08 ug/ml.

Molecular Mass	24.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% 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 ddH2O to a concentration of 0.1-0.2 mg/mL. Do not vortex.

GENE INFORMATION

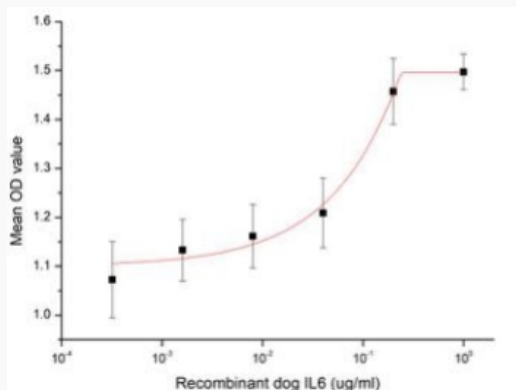
Gene Name	IL6 interleukin 6 (interferon, beta 2) [<i>Canis lupus familiaris</i>]
Official Symbol	IL6
Synonyms	IL6; interleukin 6 (interferon, beta 2); interleukin-6; IL-6;
Gene ID	403985
mRNA Refseq	NM_001003301
Protein Refseq	NP_001003301

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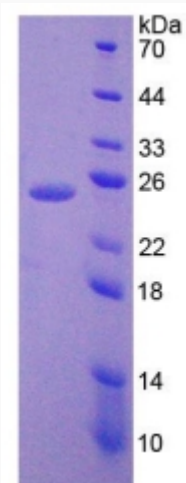
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Activity



SDS-PAGE



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