Active Recombinant Dog EPO protein, His-tagged

Cat. No. EPO-3276D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Dog EPO protein(P33707)(41~206 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Dog
Source	HEK293
ProteinLength	41-206 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Erythropoietin (EPO) is a growth factor produced in the kidneys that stimulates the production of red blood cells. It works by promoting the division and differentiation of committed erythroid progenitors in the bone marrow. Epo additionally plays a tissue protective role in ischemia by blocking apoptosis and inducing angiogenesis. To test the effect of EPO on cell proliferation, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 8,000 cells/well with 2% serum standard 1640 which contains various concentrations of recombinant dog EPO. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µof 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 4 hours at 37°C. Proliferation of TF-1 cells after incubation with EPO for 48h observed by inverted microscope was shown. Cell

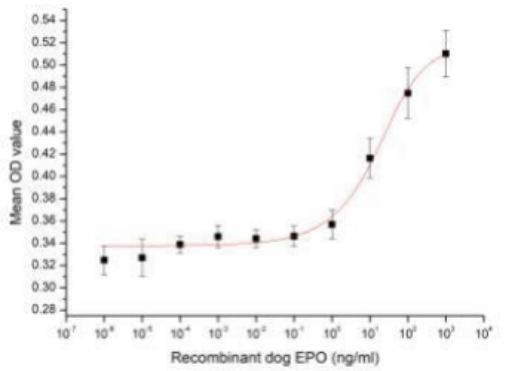
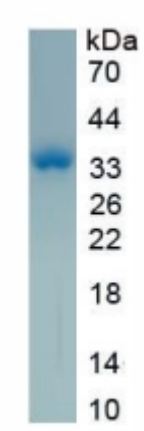
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	viability was assessed by CCK-8 assay after incubation with recombinant dog EPO for 48h. EPO significantly increased cell viability of TF-1 cells. The ED50 is 17 ng/ml.
Molecular Mass	20.0kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
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.

GENE INFORMATION

Gene Name	EPO erythropoietin [Canis lupus familiaris]
Official Symbol	EPO
Synonyms	EPO; erythropoietin;
Gene ID	404002
mRNA Refseq	NM_001006646
Protein Refseq	NP_001006647

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Activity	
SDS-PAGE	

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