

Active Recombinant Rat EPO protein, His-tagged

Cat. No. EPO-2127R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat EPO protein(P29676)(28~192 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	28-192 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 rat 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 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 4 hours at 37°C. Proliferation of TF-1 cells after incubation with EPO for 48h observed by inverted microscope was shown. Cell viability was

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assessed by CCK-8 assay after incubation with recombinant rat EPO for 48h. EPO significantly increased cell viability of TF-1 cells. The ED50 is 3 ng/ml.

Molecular Mass	20.1kDa
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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

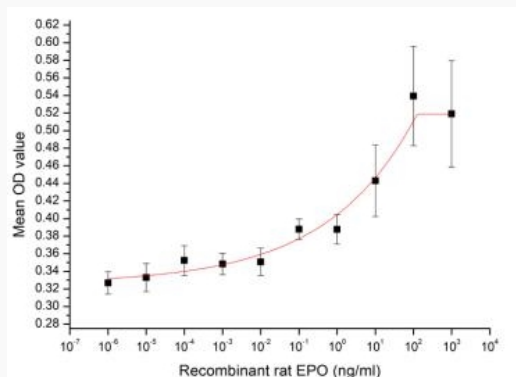
Gene Name	Epo erythropoietin [<i>Rattus norvegicus</i>]
Official Symbol	EPO
Synonyms	EPO; erythropoietin;
Gene ID	24335
mRNA Refseq	NM_017001
Protein Refseq	NP_058697

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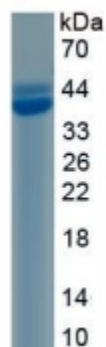
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Activity



SDS-PAGE



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