

Erythropoietin (EPO) Active Protein | EPO active protein

Active Erythropoietin (EPO)

CATALOG # AAA161659	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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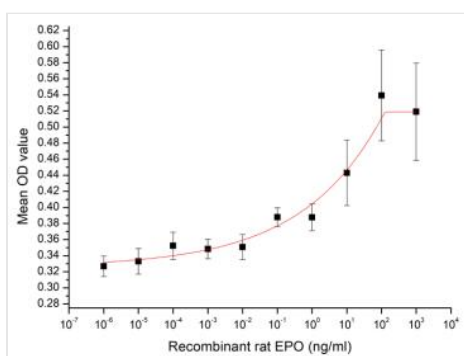
PRODUCT SYNONYMS

Erythropoietin (EPO); Active Erythropoietin (EPO); Erythropoietin; EPO active protein (eukaryotic; 293F cell); Rat; EP; Epoetin; Erythropoetin; Hematopoietin; Hemopoietin4; EPO active protein

PRODUCT SPECIFICATIONS

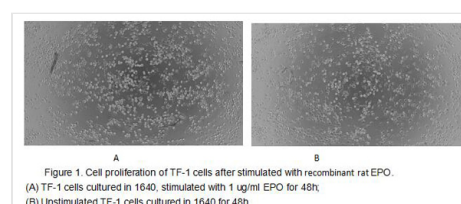
Host	293F cell
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Pro28~Arg1 92
Applicable Applications for EPO active protein	Activity Assay, Cell Culture
Species	Rat
Expression System	Eukaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	8.8
Research Area	Cytokine, Endocrinology, Hematology, Hormone metabolism
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

IMAGES



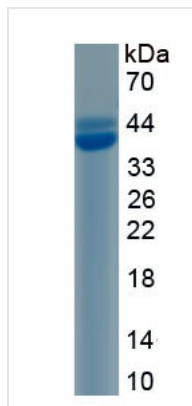
Bioactivity

Figure 2. Cell proliferation of TF-1 cells after stimulated with recombinant rat EPO.



Bioactivity

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 ul 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 degree C. Proliferation of TF-1 cells after incubation with EPO for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 assay after incubation with recombinant rat EPO for 48h. The result was shown in Figure 2. It was obvious that EPO significantly increased cell viability of TF-1 cells. The ED50 is 3 ng/ml.



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for EPO active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	232064
NCBI GeneID	24335
UniProt Accession #	P29676; P70504
Molecular Weight	21,286 Da
NCBI Official Full Name	Erythropoietin
NCBI Official Synonym Full Names	erythropoietin
NCBI Official Symbol	Epo
NCBI Protein Information	erythropoietin
UniProt Protein Name	Erythropoietin
UniProt Gene Name	Epo
UniProt Entry Name	EPO_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/293f-cell-active-protein/erythropoietin-epo/161659>