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## Product Datasheet

### Human EPO protein, His and GST tag (active), Unconjugated GTX00422-PRO

Article Name	Human EPO protein, His and GST tag (active), Unconjugated
Biozol Catalog Number	GTX00422-PRO
Supplier Catalog Number	GTX00422-pro
Alternative Catalog Number	GTX00422-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	ELISA, FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">2056</a>
UniProt	<a href="#">P01588</a>
Buffer	Reconstitute with 20mM Tris (pH8.0) and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris (pH8.0), 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag and GST-Tag, Ala28~Arg193 (NP_000790.2)

#### Application Notes

Erythropoietin (EPO), also known as hematopoietin or hemopoietin, is a glycoprotein cytokine secreted by the kidney in response to cellular hypoxia, it stimulates red blood cell production (erythropoiesis) in the bone marrow. Erythropoietin is an essential hormone for red blood cell production. EPO can cooperate with various other growth factors involved in the development of erythroid lineage from multipotent progenitors. 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 5000 cells/well with 1% serum standard 1640 including various concentrations of recombinant human EPO. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ l of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37C. Proliferation of TF-1 cells after incubation with EPO for 72h observed by inverted microscope, and cell viability was assessed by CCK-8 (Cell Counting Kit-8 ) assay after incubation with recombinant EPO for 72h. EPO significantly increased cell viability of TF-1 cells.