

EPO-alpha, human recombinant protein
Erythropoietin- α , EPO- α , Epoetin, EP, MGC138142
Catalog # PBV10401r**Specification**

EPO-alpha, human recombinant protein - Product info

Primary Accession [P01588](#)
Calculated MW **37 kDa** **KDa**

EPO-alpha, human recombinant protein - Additional Info

Gene ID **2056**
Gene Symbol **Epo**
Other Names
Erythropoietin- α , EPO- α , Epoetin, EP, MGC138142

Gene Source **Human**
Source **CHO cells**
Assay&Purity **SDS-PAGE; $\geq 98\%$**
Assay2&Purity2 **HPLC; $\geq 90\%$**
Recombinant **Yes**

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1 to 1.0 mg/ml. This solution can then be diluted into other aqueous buffers containing a carrier protein (like 0.1% BSA) and stored in working aliquots at -20°C to -80°C for future use.

Format

Lyophilized protein

Storage

-20°C; Each mg of lyophilized protein contains 0.58 mg sodium citrate, 0.58 mg sodium chloride and 0.006 mg citric acid.

EPO-alpha, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EPO-alpha, human recombinant protein - Images**EPO-alpha, human recombinant protein - Background**

Erythropoietin (EPO) is a glycoprotein hormone that is principally known for its role in erythropoiesis, where it is responsible for stimulating proliferation and differentiation of erythroid progenitor cells. The differentiation of CFU-E (Colony Forming Unit -Erythroid) cells into erythrocytes can only be accomplished in the presence of EPO. Physiological levels of EPO in adult mammals are maintained primarily by the kidneys, whereas levels in fetal or neonatal mammals are maintained by the liver. EPO also can exert various non-hematopoietic activities, including vascularization and proliferation of smooth muscle, neural protection during hypoxia, and stimulation of certain B cells. BioVision's Human EPO contains 166 amino acid residues and has a calculated molecular weight of approximately 18.4 kDa. As a result of glycosylation, Recombinant Human EPO migrates with an apparent molecular mass of 37.0 kDa by SDS-PAGE gel, under reducing and non-reducing conditions.