

# Recombinant Human EPO

Cat. #: SEP-010

## Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

## Protein Description

Recombinant human erythropoietin (EPO) expressed in engineered human cells. EPO belongs to the EPO/TPO protein family. EPO is an acidic hormone mainly produced by kidneys. EPO promotes erythroid progenitor cell differentiation and initiates hemoglobin synthesis. EPO acts by binding to a specific erythropoietin receptor (EPOR) present on the red blood cell precursor in the bone marrow, stimulating these cells to transform into mature erythrocytes. The EPO sensitivity progressively increases with differentiation of immature progenitor cells.

## References

Kitamura T, et al. (1989) J. Cell Physiol. 140, 323-334.

Sinclair, AM, et al. (2007) Cancer 110, 477-488.

**Source:** Derived from human cells

**Size:** 10 µg

**Shipping:** Ambient temperature

**Structure:** Glycosylated homodimer

**Purity:** >95% by SDS-PAGE

**Endotoxin Level:** <0.5 EU/µg

**Molecular Weight:** 36 kDa

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein

## Activity Assay

Activity was measured by its ability to stimulate the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).

## Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

## Stability and Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80° C as supplied. 1 month, 2 to 8° C under sterile conditions after reconstitution. 3 months, -20 to -80° C under sterile conditions after reconstitution.

