

AR51115PU-N

Human Erythropoietin / EPO (28-193, His-tag) - Purified

Alternate names:

Epoetin

Quantity:

0.25 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

Erythropoietin, also known as EPO, is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. Overexpression of EPO is associated with several pathophysiological conditions, such as polycythemia vera, which is caused by the EPO-independent growth of erythrocytic progenitors from abnormal stem cells.

Uniprot ID:

[P01588](#)

NCBI:

[NP_000790.2](#)

GeneID:

[2056](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >80% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description:

Recombinant human EPO protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSAPRLIC DSRVLERYLL EAKEAENITT GCAEHCSLNE
NITVPDTKVN FYAWKRMEVG QQAVEVWQGL ALLSEAVLRG QALLVNSSQP WEPLQLHVDK
AVSGLRSLTT LLRALRAQKE AISPPDAASA APLRTITADT FRKLFRVYSN FLRGKCLKLYT
GEACRTGDR

Molecular weight: 20.9 kDa (189aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

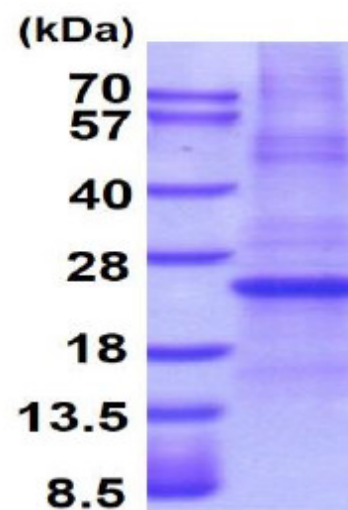
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Jelkmann W., et al. (1992) *Physiol Rev.* 72:449-489. Takahashi T., et al. (1995) *Blood.* 85:106-114.

Pictures:



15% SDS-PAGE (3ug)