

EPO, 28-193aa, Human, His tag, E.coli

Cat.NO.: TP02035

3th Edition

Synonyms:Erythropoietin, EP

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

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight:20.9 kDa (189aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSAAPRLICDSRVLERYLLEAKEAENITGCAEHCSLNENITVPDTKVNIFYAWKR
MEVGQQAQAVEVWQGLALLSEAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTLLRALRAQKEAISPPDAASAA
PLRTITADTFRKLFVYSNFLRGKLLKLYTGEACRTGDR

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.