

32-13645: EPO Rat

Format : EPO protein (1mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.

Alternative Name : Erythropoietin-Alpha, EPO-a, EPO-alpha, EP, MGC138142.

Description

Source: HEK293 cells.

Physical Appearance: Sterile Filtered colorless solution.

Biological Activity: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range = 2ng/ml.

Erythropoietin or EPO is a hormone (glycoprotein), part of the type I cytokine group of proteins. EPO is found mainly in the kidney tissue, produced from fibroblast-like cortical interstitial cells near the proximal tubules. EPO is also present in the blood, where it acts as red cell production regulator, by the promotion of differentiation of erythroid and thereby starts hemoglobin synthesis. Furthermore, EPO has neuroprotective activity towards brain injuries & anti-apoptotic activity in different tissues.

EPO Rat Recombinant produced in HEK293 cells is a single, glycosylated polypeptide chain (27-192 a.a) containing 175 amino acids and having a molecular mass of 19.6 kDa. EPO is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 10 µg / 2 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : DGSAPPRLIC DSRVLERYIL EAKEAENVMT GCAEGPRLSE NITVPDTKVN FYAWKRMKVE EQAVEVWQGL SLLSEAILQA QALQANSSQP PESLQLHIDK AISGLRSLTS LLRVLGAQKE LMSPPDATQA APLRTLADT FCKLFRVYSN FLRGKCLKLYT GEACRRGDRH HHHHH.