

Recombinant Human EPO-a (rHu EPO-a)

Catalog No: #70204



Package Size: #70204-1 20ug #70204-2 100ug #70204-3 1mg #70204-4 10mg

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Description

Product Name	Recombinant Human EPO-a (rHu EPO-a)
Brief Description	Recombinant Protein
Purification	> 98 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu EPO-a
Other Names	Epoetin
Accession No.	accession:P01588 GeneID:2056
Uniprot	P01588
GeneID	2056;
Calculated MW	Mature human EPO, containing 1
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNIFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTLLR ALGAQKEAIS PPDAASAAPL RTITADTFRK LFRVYSNFLR GKLKLYTGEA CRTGDR
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in sodium citrate buffer (1 liter of ddH ₂ O containing 5.9 g of sodium citrate, 5.8 g of sodium chloride and 0.06 g of citric acid).
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

Erythropoietin (EPO), a glycoprotein produced primarily by the kidney, is the principal factor that regulates erythropoiesis by stimulating the proliferation and differentiation of erythroid progenitor cells. The production of EPO by kidney cells is increased in response to hypoxia or anemia. Recombinant EPO has been approved for the treatment of anemia associated with chronic renal failure as well as for anemia of AZT treated AIDS patients.

References

1. Hanicki Z. 1988. Pol Arch Med Wewn, 80: 290-3.
2. Haniu M, Narhi LO, Arakawa T, et al. 1993. Protein Sci, 2: 1441-51.
3. Baranowska-Daca EandKsiazek A. 1994. Ann Univ Mariae Curie Sklodowska Med, 48 Suppl 3: 51-60.
4. Chow KM, Szeto CC, Li PK. 2003. Am J Kidney Dis, 41: 266-7; author reply 7.
5. Maurer MH, Schabitz WR, Schneider A. 2008. Curr Med Chem, 15: 1407-11.

Note: This product is for in vitro research use only