Product datasheet for TP723842

Epo (NM_007942) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse erythropoietin (Epo)
Species:	Mouse
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	Mouse EPO, the region of Ala27-Arg192, from gene Accession# NM_007942.2
Tag:	Tag Free
Predicted MW:	18.6 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS
Bioactivity:	The ED50 is 0.5 - 2.5 ng/ml, corresponding to a specific activity of 0.4 - 2 x 10^6 units/mg, determined by the dose dependent stimulation of TF-1 cells proliferation.
Endotoxin:	Less than 0.01 ng per µg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_031968
Locus ID:	13856
UniProt ID:	P07321
RefSeq Size:	715
Cytogenetics:	5 76.5 cM
RefSeq ORF:	576

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Summary: This gene encodes the glycoprotein hormone erythropoietin that regulates the production of red blood cells and biosynthesis of hemoglobin. The predominant expression of this gene shifts from the liver during fetal development to kidney in adults. A complete lack of the encoded protein causes embryonic lethal anemia in mice. The conditional inactivation of this gene in adult mice results in a chronic, normocytic and normochromic anemia. Transgenic mice expressing the human ortholog of this gene exhibit polycythemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

Product images: