

Active Recombinant Mouse Epo Protein

Cat. No. Epo-964M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse erythropoietin (Epo) (Ala27-Arg192) without tag was expressed in CHO cell.
Species	Mouse
Source	CHO
ProteinLength	27-192 a.a.
Description	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.
Bio-activity	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.
Molecular Mass	18.6 kDa
Endotoxin	Less than 0.01 ng per µg protein as determined by the LAL method

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Purity	>98%, as determined by Coomassie stained SDS-PAGE.
Stability	Unopened vial can be stored between 2 centigrade and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 centigrade and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Concentration	Protein formulated and vialled at >50 µg/mL in specified buffer
Storage Buffer	1 x PBS

GENE INFORMATION

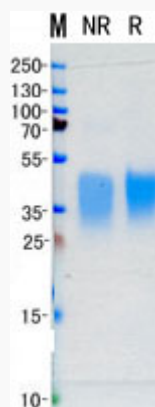
Gene Name	Epo erythropoietin [Mus musculus (house mouse)]
Official Symbol	Epo
Synonyms	Epo; erythropoietin; erythropoietin
Gene ID	13856
mRNA Refseq	NM_007942
Protein Refseq	NP_031968
UniProt ID	P07321

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SDS-PAGE



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