Recombinant Mouse Epo protein, His & T7-tagged

Cat. No. Epo-604M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Epo (B7ZMY9) aa. (Val82~Arg192) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Val82~Arg192
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.1kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 95%

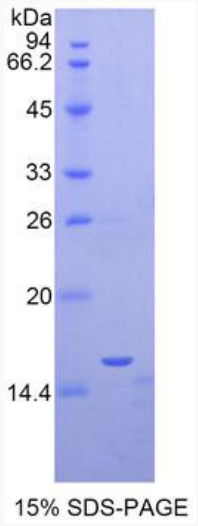
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Characteristic	The isoelectric point is 9.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	100mM NaHCO3, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	Epo erythropoietin [Mus musculus (house mouse)]
Official Symbol	Epo
Synonyms	Epo; erythropoietin
Gene ID	13856
mRNA Refseq	NM_001312875.1
Protein Refseq	NP_001299804.1

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UniProt ID	B7ZMY9
SDS-PAGE	 15% SDS-PAGE

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