# Recombinant Mouse Epo protein, His & S-tagged

**Cat. No.** Epo-603M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Mouse Epo (B7ZMY9) aa. (Val82~Arg192) fused with N-terminal His & S 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** | 21kDa as determined by SDS-PAGE reducing conditions |
| **Endotoxin** | <1.0EU per 1μg (determined by the LAL method) |
| **Purity** | > 95% |

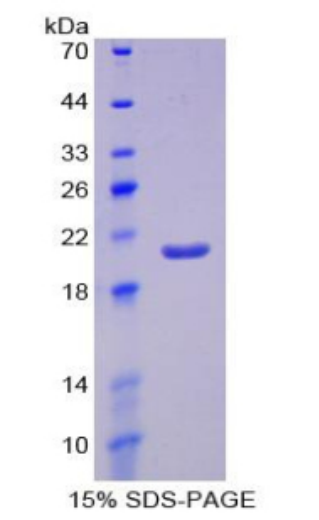
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| **Characteristic** | The isoelectric point is 6.2. |
| **Applications** | SDS-PAGE; WB; ELISA; IP. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that 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** | PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl. |
| **Dilutions** | PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl. |
| **Reconstitution** | Reconstitute in sterile PBS, pH7.2-pH7.4 |

## GENE INFORMATION

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| **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** |  |



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