

## Active Recombinant Mouse Epo Protein

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of Mouse erythropoietin (Epo) (Ala27-Arg192) without tag was expressed in CHO cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 27-192 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Bio-activity</b>     | The ED50 is 0.5 - 2.5 ng/ml, corresponding to a specific activity of 0.4 - 2 x 10 <sup>6</sup> units/mg, determined by the dose dependent stimulation of TF-1 cells proliferation.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 18.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>        | Less than 0.01 ng per µg protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >98%, as determined by Coomassie stained SDS-PAGE.                                                                                                                                                                                                                                                                                                                |
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>  | Protein formulated and vialled at >50 µg/mL in specified buffer                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b> | 1 x PBS                                                                                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

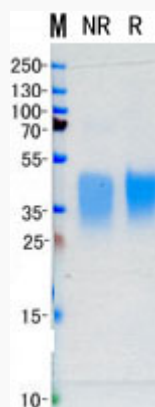
|                        |                                                   |
|------------------------|---------------------------------------------------|
| <b>Gene Name</b>       | Epo erythropoietin [ Mus musculus (house mouse) ] |
| <b>Official Symbol</b> | Epo                                 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

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SDS-PAGE



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