



SHANGHAI GENOMICS

## Recombinant Human erythropoietin

**rHuEPO**

Catalog number: SG3110-41

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### *Specifications and Use*

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| <b>Source</b>              | <ul style="list-style-type: none"><li>● CHO cell</li></ul>                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>      | <ul style="list-style-type: none"><li>● 35-45kDa</li></ul>                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>              | <ul style="list-style-type: none"><li>● <math>\geq 98\%</math> as determined by SDS-PAGE and HPLC analyses</li></ul>                                                                                                                                                                                                                                       |
| <b>Biological Activity</b> | <ul style="list-style-type: none"><li>● rHuEPO is fully biologically active when compared to standards. Its specific activity is <math>\geq 1.2 \times 10^5</math> units/mg.</li></ul>                                                                                                                                                                     |
| <b>Endotoxin Level</b>     | <ul style="list-style-type: none"><li>● Less than <math>10\text{EU}/10^4</math> IU of rHuEPO as determined by LAL method.</li></ul>                                                                                                                                                                                                                        |
| <b>Formulation</b>         | <ul style="list-style-type: none"><li>● Sterile filtered lyophilized (freeze-dried) powder</li></ul>                                                                                                                                                                                                                                                       |
| <b>Solubility</b>          | <ul style="list-style-type: none"><li>● It is recommended to reconstitute the lyophilized rHuEPO in sterile buffer to prepare a stock solution of no less than <math>100 \mu\text{g}/\text{ml}</math> of the cytokine.</li></ul>                                                                                                                           |
| <b>Stability</b>           | <ul style="list-style-type: none"><li>● The rHuEPO solution, though stable at room temperature, is best kept desiccated <math>2\text{--}8^\circ\text{C}</math>.</li><li>● Reconstituted rHuEPO aliquots should be stored at <math>-20^\circ\text{C}</math> for maximal stability up to three years.</li><li>● Avoid repeated freeze-thaw cycles.</li></ul> |
| <b>Usage</b>               | <ul style="list-style-type: none"><li>● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.</li></ul>                                                                                                                                                                                                                                                                |

### Recombinant Human erythropoietin

Erythropoietin (EPO) is a glycoprotein hormone produced primarily by the kidney and is the main factor regulating red blood cell production. The mature protein consists of a 165 amino acid polypeptide chain heavily glycosylated at three N-linked and O-linked glycosylation sites yielding a total molecular mass of 35-45kDa. About 40% of the fully glycosylated EPO molecule consists of carbohydrate.