Active Recombinant Mouse Epo Protein, His-tagged

Cat. No. Epo-022M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse EPO, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect cells
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	Liquid
Bio-activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ≤ 2 ng/mL.
Molecular Mass	19.8 kDa
AA Sequence	MAPPRLICDSRVLERYILEAKEAENVTMGCAEGPRLSENITVPDTKVNFYAWKRMEV EEQAIEVWQGLSLLSEAILQAQALLANSSQPPETLQLHIDKAISGLRSLTSLLRVLGAQ

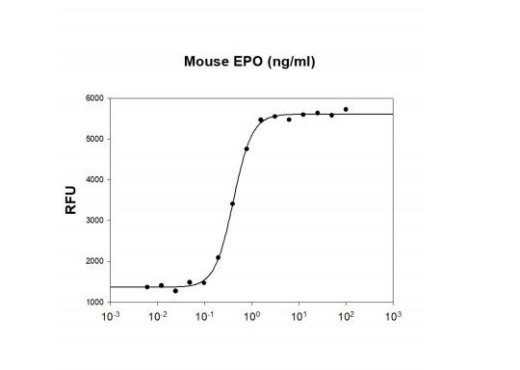
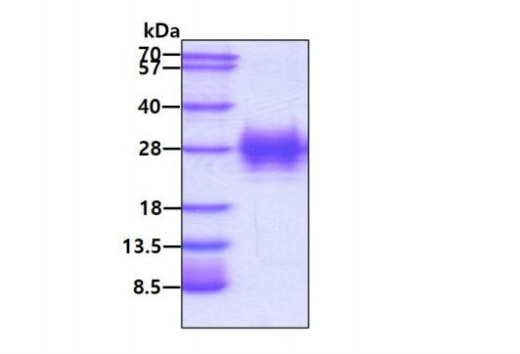
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	KELMSPPDTTPPAPLRTLTVDTFCKLFRVYANFLRGKLKLYTGEVCRRGDR
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -101 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Biological Activity	 Mouse EPO stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range ≤ 2ng/mL.
SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA