

Active GMP Recombinant Human EPO Protein

Cat. No. EPO-01HG Lot. No. (See product label)

SPECIFICATION

Product Overview

This product is made from a eukaryotic expression system (CHO-k1) containing a highly efficient expression of the human EPO-Fc gene by fermentation (the medium does not contain any animal-derived components), isolation and high purification followed by lyophilization. It is a polypeptide chain consisting of 166 amino acid residues (Ala28-Arg193) of human EPO and a human IgG Fc segment with a molecular weight of 58 kDa.

Species Human

Source CHO

ProteinLength 28-193 a.a.

Description

Erythropoietin (EPO), also known as erythropoietin-stimulating factor and erythropoietin, is an endogenous human glycoprotein hormone that stimulates erythropoiesis. Erythropoietin production can be stimulated by hypoxia, and recombinant human erythropoietin has long been used clinically for the treatment of anemia in combination with renal insufficiency, anemia caused by acquired immunodeficiency syndrome/AIDS itself or treatment, anemia associated with malignant tumors, and anemia in rheumatic diseases.

Form Lyophilized powder

Endotoxin <20 EU/mg

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Bio-activity	>1.0 x 10 ⁵ IU/mg
Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Molecular Mass	58 kDa
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhEPO be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

GENE INFORMATION

Gene Name	Erythropoietin
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