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Recombinant Mouse Erythropoietin/EPO (C-6His)

Catalog No. PKSM041422

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Erythropoietin;Epoetin;EPO

Species Mouse

Expression Host

Sequence
Ala27-Arg192
Accession
Q0VED9
Calculated Molecular Weight
Observed molecular weight
Tag

HEK293 Cells
Ala27-Arg192
Q0VED9
19.4 kDa
30-40 kDa
C-His

Bioactivity Measured in a cell proliferation assay using TF-1 human erythroleukemic cells The

ED₅₀ for this effect is 0.35 ng/ml.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

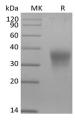
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Erythropoietin (EPO) is a glycoprotein hormone that is principally known for its role in erythropoiesis, where it is

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responsible for stimulating proliferation and differentiation of erythroid progenitor cells. Erythropoietin is a member of the EPO/TPO family. It is a secreted, glycosylated cytokine composed of four alpha helical bundles. The differentiation of CFU-E (Colony Forming Unit-Erythroid) cells into erythrocytes can only be accomplished in the presence of EPO. Physiological levels of EPO in adult mammals are maintained primarily by the kidneys, whereas levels in fetal or neonatal mammals are maintained by the liver. EPO also can exert various non-hematopoietic activities, including vascularization and proliferation of smooth muscle, neural protection during hypoxia, and stimulation of certain B cells. Genetic variation in erythropoietin is associated with susceptbility to microvascular complications of diabetes type 2. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy.

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