

Recombinant Equine EPO

Cat. No. EPO-100E **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Equine EPO was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.

Species

Equine

Source

Yeast

Description

Erythropoietin (EPO) is an essential hormone for red blood cell production. Without it, definitive erythropoiesis does not take place. Erythropoietin has its primary effect on red blood cell progenitors and precursors by promoting their survival through protecting these cells from apoptosis. It is the primary erythropoietic factor that cooperates with various other growth factors (e.g., IL-3, IL-6, glucocorticoids, and SCF) involved in the development of erythroid lineage from multipotent progenitors. Erythropoietin has a range of actions including vasoconstriction-dependent hypertension, stimulating angiogenesis, and inducing proliferation of smooth muscle fibers.

Form

Lyophilized without carrier protein.

Molecular Mass

Equine EPO has a predicted molecular weight of 18.3 kDa.

AA Sequence

APPRLICDSR VLERYILEAR EAENVTMGCA EGCSFGENVV VPDTKVNFYV
WKRMEVEQQA VEVWQGLALL SEAILQGQAL LANSSQPSET LRLHVDKAVS
SLRSLTSLLR ALGAQKEAIS PPDAASAAPL RTFAVDTLCK LFRIYSNFLR
GKLKLYTGEA CRRGDR

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Purity	>95% as visualized by SDS-PAGE analysis.
Applications	The Equine EPO protein can be used in cell culture, as an EPO ELISA Standard, and as a Western Blot Control.
Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

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