Recombinant Dog EPO Protein, His-tagged

Cat. No. EPO-904D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog EPO Protein (Ala41-Arg206) with His tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	Ala41-Arg206
Description	This gene encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The encoded protein is mainly synthesized in the kidney, secreted into the blood plasma, and binds to the erythropoietin receptor to promote red blood cell production, or erythropoiesis, in the bone marrow. Expression of this gene is upregulated under hypoxic conditions, in turn leading to increased erythropoiesis and enhanced oxygen-carrying capacity of the blood. Expression of this gene has also been observed in brain and in the eye, and elevated expression levels have been observed in diabetic retinopathy and ocular hypertension. Recombinant forms of the encoded protein exhibit neuroprotective activity against a variety of potential brain injuries, as well as antiapoptotic functions in several tissue types, and have been used in the treatment of anemia and to enhance the efficacy of cancer therapies.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 18.41 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	EPO erythropoietin [Canis lupus familiaris (dog)]
Official Symbol	EPO
Synonyms	EPO; erythropoietin;
Gene ID	404002
mRNA Refseq	NM_001006646
Protein Refseq	NP_001006647
UniProt ID	P33707

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