

Product datasheet for AR31186PU-N

Erythropoietin / EPO Human Protein

Product data:

OriGene Technologies, Inc.

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Product Type:	Recombinant Proteins
Description:	Erythropoietin / EPO human recombinant protein, 50 μg
Species:	Human
Expression Host:	СНО
Expression cDNA Clone or AA Sequence:	APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTTLLR ALGAQKEAIS PPDAASAAPL RTITADTFRK LFRVYSNFLR GKLKLYTGEA CRTGDR
Predicted MW:	37.0 kDa
Purity:	>90% pure by SDS-PAGE gel and HPLC analyses
Buffer:	Presentation State: Purified State: Lyophilized (0.2µ Sterile filtered) purified protein
Bioactivity:	Biological: Determined by a cell proliferation assay using TF-1 cells. The expected EB_0 for this effect is 0.8-1.0 ng/ml.
Reconstitution Method:	Restore in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to - 80°C.
Preparation:	Lyophilized (0.2µ Sterile filtered) purified protein
Protein Description:	Human EPO <i>CatNo</i> AR31186PU contains 166 amino acid residues and has a calculated molecular weight of approximately 18.4 kDa. As a result of glycosylation, Recombinant Human EPO migrates with an apparent molecular mass of 37.0 kDa by SDS-PAGE gel, under reducing and non-reducing conditions.
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP 000790</u>
Locus ID:	2056



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	Erythropoietin / EPO Human Protein – AR31186PU-N
UniProt ID:	<u>P01588</u>
Cytogenetics:	7q22.1
Synonyms:	Epoetin
Summary:	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. [provided by RefSeq, Aug 2017]
Protein Families	: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathway	ys: Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway

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