

Product datasheet for **AR51115PU-N**

Erythropoietin / EPO (28-193, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Erythropoietin / EPO (28-193, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSAPPRLIC DSRVLERYLL EAKEAENITT GCAEHCSLNE NITVPDTKVN FYAWKRMEVG QQAVEVWQGL ALLSEAVLRG QALLVNSSQP WEPLQLHVDK AVSGLRSLTT LLRALRAQKE AISPPDAASA APLRTITADT FRKLFRVYSN FLRGKCLKLYT GEACRTGDR
Tag:	His-tag
Predicted MW:	20.9 kDa
Concentration:	lot specific
Purity:	>80% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human EPO protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000790
Locus ID:	2056
UniProt ID:	P01588 , G9JKG7
Cytogenetics:	7q22.1
Synonyms:	Epoetin



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Summary:

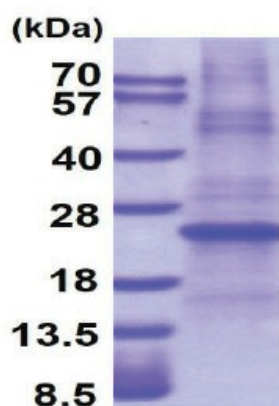
This gene encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The encoded protein is mainly synthesized in the kidney, secreted into the blood plasma, and binds to the erythropoietin receptor to promote red blood cell production, or erythropoiesis, in the bone marrow. Expression 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 Pathways:

Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway

Product images:

15% SDS-PAGE (3ug)