

EPOR-CD131 Heterodimer Protein, Human (HEK293, Fc)

Cat. No.:	HY-P73032
Synonyms:	EpoR; EPO-R; Erythropoietin R; Erythropoietin receptor
Species:	Human
Source:	HEK293
Accession:	P19235 (A25-P250)&P32927 (W17-W443)
Gene ID:	2057&1439
Molecular Weight:	Approximately 110-130 kDa

PROPERTIES

AA Sequence

MDHLGASLWP	QVGS LCLLLA	GAAWAP PPNL	PDPKFESKAA
LLAARGPEEL	LCF TERLEDL	VCFWEEAASA	GVGPGNYSFS
YQLEDEPWKL	CRLHQAPTAR	GAVRFWC SLP	TADTSSSFVPL
ELRVTAASGA	PRYHRV IHIN	EVVLLDAPVG	LVARLADESG
HVVLRWLPPP	ETPMTSHIRY	EVDVSAGNGA	GSVQRVEILE
GRTECVLSNL	RGRTRYTFAV	RARMAEPSFG	GFWSAWSEPV
SLLTPSDLDP			
&WERSLAGAE			
E	T I P L Q T L R C Y	N D Y T S H I T C R	W A D T Q D A Q R L
V N V T L I R R V N	E D L L E P V S C D	L S D D M P W S A C	P H P R C V P R R C
V I P C Q S F V V T	D V D Y F S F Q P D	R P L G T R L T V T	L T Q H V Q P P E P
R D L Q I S T D Q D	H F L L T W S V A L	G S P Q S H W L S P	G D L E F E V V Y K
R L Q D S W E D A A	I L L S N T S Q A T	L G P E H L M P S S	T Y V A R V R T R L
A P G S R L S G R P	S K W S P E V C W D	S Q P G D E A Q P Q	N L E C F F D G A A
V L S C S W E V R K	E V A S S V S F G L	F Y K P S P D A G E	E E C S P V L R E G
L G S L H T R H H C	Q I P V P D P A T H	G Q Y I V S V Q P R	R A E K H I K S S V
N I Q M A P P S L N	V T K D G D S Y S L	R W E T M K M R Y E	H I D H T F E I Q Y
R K D T A T W K D S	K T E T L Q N A H S	M A L P A L E P S T	R Y W A R V R V R T
S R T G Y N G I W S	E W S E A R S W D T	E S V L P M W	

Biological Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EPOR at 2µg/mL (100µL/well) can bind biotinylated EPO. The ED₅₀ for this effect is 44.91ng/mL.

Appearance

Lyophilized powder

Formulation

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

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

The EPOR serves as the receptor for erythropoietin (EPO), playing a crucial role in mediating EPO-induced erythroblast proliferation and differentiation. Upon stimulation by EPO, the EPOR component of the heterodimer undergoes dimerization, initiating the JAK2/STAT5 signaling cascade. In certain cell types, this heterodimeric receptor complex can additionally activate STAT1 and STAT3, and may participate in the activation of the LYN tyrosine kinase. Notably, the isoform EPOR-T acts as a dominant-negative receptor, modulating and attenuating EPOR-mediated signaling pathways. The intricate interplay within the EPORic complex underscores its significance in regulating cellular responses to EPO stimulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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