

Recombinant human Erythropoietin R/EPOR protein

Catalog Number: ATGP3494

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

25-250aa

UniProt No.

P19235

NCBI Accession No.

NP_000112

Alternative Names

Erythropoietin receptor, EPO-R, EPOR

PRODUCT SPECIFICATION

Molecular Weight

25.6 kDa (232aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its ability to inhibit proliferation using TF-1 human erythroleukemic cells. The ED50 range ≤ 70 ng/ml with Human Erythropoietin.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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Description

EPOR, also known as Erythropoietin receptor, mediates erythropoietin-induced erythroblast proliferation and differentiation. Upon EPO stimulation, it dimerizes triggering the JAK2/STAT5 signaling cascade. In some cell types, can also activate STAT1 and STAT3. So it may also activate the LYN tyrosine kinase. Recombinant human EPOR, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

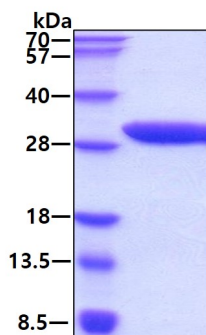
APPPNLPDPK FESKAALLAA RGPEELLCFT ERLEDLVCFW EEAASAGVGP GNYSFSYQLE DEPWKLCRLH QAPTARGAVR
 FWCSLPTADT SSFVPLELRV TAASGAPRYH RVIHINEVVL LDAPVGLVAR LADESGHVVL RWLPPPETPM TSHIRYEVDV
 SAGNGAGSVQ RVEILEGRTE CVLSNLRGRT RYTFAVRARM AEPSFGGFWS AWSEPVSLLT PSDLDP<HHHH HH>

General References

Nakamura Y., et al. (1992) Science. 257:1138-1141.
 Kirito K., et al. (2002) Blood. 99:102-110.

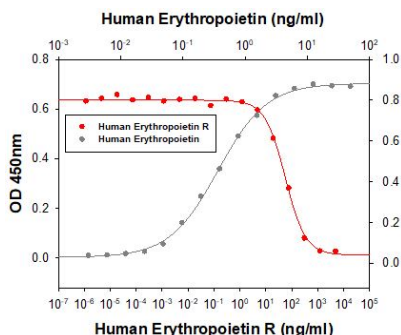
DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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