9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

EPOR Human, Active

Erythropoietin Receptor Human Recombinant, Active
GRF0052

Product Overview

Name	EPOR Human, Active
Description	
Erythropoietin Receptor Human Recombinant, Active	
Accession (Primary)	P19235
Synonyms	
EPO-R, EPOR, Erythropoietin Receptor.	
Introduction	
Erythropoietin receptor, also known as EPOR arbitrates erythropoietin-induced erythroblast proliferation as well as differentiation. During EPO binding, EPOR activates Jak2 tyrosine kinase which activates various intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. Furthermore, stimulated EPOR has a function in erythroid cell survival. Mutations in EPOR may possibly produce erythroleukemia and familial erythrocytosis. In addition, dysregulation of EPOR can affect on the growth of selected tumors.	
Source	
Sf9, Baculovirus cells.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
EPOR protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by analysis by SDS-PAGE.	
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.	

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Biological Activity

Measured by its ability to inhibit EPO dependent proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect less or equal to 70ng/ml.

Precautions

EPOR Human, Active is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P19235)