
Product Data Sheet

Product Name: EPOR Human, Active

Cat. No.: GP20199

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EPO-R; EPOR; Erythropoietin Receptor.		
Amino Acid Sequence	APPPNLPDPK FESKAALLAA RGPEELLCFT ERLEDLVCFW EEAASAGVGPNGYSFSYQLE DEPWKLCRLH QAPTARGAVR FWCSLPTADT SSFVPLELRV TAASGAPRYH RVIHINEVLLDAPVGLVAR LADESGHVVL RWLPPPETPM TSHIRYEVDV SAGNGAGSVQ RVEILEGRTE CVLSNLRGRTRYTFAVRARM AEPSFGGFWS AWSEPVSLLT PSDLDPHHHH HH.		
Formulation	EPOR protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

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.

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.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

EPOR produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 232 amino acids (25-250a.a.) and having a molecular mass of 25.6kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). EPOR is expressed with a 6 amino acid His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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