
Product Data Sheet

Product Name: POR Human, Active

Cat. No.: GP26174

Batch No.: 1

Product Data

Purity >98% Source Sf9,Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms P450 (Cytochrome) Oxidoreductase, EC 1.6.2.4, CYPOR, P450R,CPR, NADPH-Dependent Cytochrome P450 Reductase, NADPH--Cytochrome P450Reductase, NADPH--cytochrome P450 reductase.

MINMGDSHVDTSSSTVSEAVA EEVSLFSMTD MILFSLIVGL LTYWFLFRKK
 KEEVPEFTKI QTLTSSVRES SFVEKMKKTGRNIIVFYGSQ TGTAEEFANR
 LSKDAHRYGM RGMSADPEEY DLADLSSLPE IDNALVVFCM
 ATYGEGDPTDNAQDFYDWLQ ETDVDLSGVK FAVFGLGNKT YEHFNAMGKY
 VDKRLEQLGA QRIFELGLGD DDGNLEEDFITWREQFWLAV CEHFGVEATG
 EESSIRQYEL VVHTDIDAAK VYMGEMGRLK SYENQKPPFD
 AKNPFLAAVTTNRKLNQGTE RHLMHLELDI SDSKIRYESG DHVAVYPAND
 SALVNQLGKI LGADLDVMS LNNLDEESNKKHPFPCPTSY RTALTYLDI
 TNPPRTNVLY ELAQYASEPS EQELLRKMAS SSGEGKELYL
 SWVVEARRHILAILQDCPSL RPPIDHLCCEL LPRLQARYYS IASSSKVHPN
 SVHICAVVVE YETKAGRINK GVATNWLRAKEPVGENGGRA LVPMFVRKSQ
 FRLPFKATTP VIMVPGTGV APFIGFIQER AWLRQQGKEV
 GETLLYYGCRRSDEDYLYRE ELAQFHRDGA LTQLNVAFSR EQSHKVYVQH
 LLKQDREHLW KLIEGGAHIY VCGDARNMARDVQNTFYDIV AELGAMEHAQ
 AVDYIKKLMT KGRYSLDVWS HHHHHH.

Formulation POR protein solution (0.25mg/ml) contains Phosphatebuffer saline (pH 7.4) and 10% glycerol.

Introduction

P450 Oxidoreductase, also known as POR is a flavoprotein which contributes electrons to all microsomal P450 enzymes. POR is localized to the endoplasmic reticulum, where it is also capable of transferring electrons to heme oxygenase as well as cytochrome b5. POR

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

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is structurally related to two separate flavoprotein families; first one is ferredoxin-nucleotide reductase and the second flavodoxin.

Biological Activity

Specific activity is > 4,000 pmol/min/mg. Defined by the amount of enzyme that reduction of 1 pmole cytochrome-C by NADPH/min. at pH-8 25C.

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.

Background

POR produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 686 amino acids (1-680 a.a.) and having a molecular mass of 77.9 kDa. POR is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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