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**Product Data Sheet**


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Product Name: POR Human

Cat. No.: GP22123

Batch No.: 1

**Product Data**

Purity &gt;98% Source Sf9,Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

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.

### 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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