

# Recombinant human Cytochrome p450 reductase/POR protein

Catalog Number: ATGP3921

## PRODUCT INFORMATION

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**Expression system**

Baculovirus

**Domain**

1-680aa

**UniProt No.**

P16435

**NCBI Accession No.**

NP\_000932

**Alternative Names**

Cytochrome p450 oxidoreductase, NADPH--cytochrome P450 reductase, NADPH--hemoprotein reductase, CYPOR, CPR, P450R

## PRODUCT SPECIFICATION

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**Molecular Weight**

77.9 kDa (686aa)

**Concentration**

0.25mg/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)

**Tag**

His-Tag

**Application**

SDS-PAGE

**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**

POR, also known as NADPH--cytochrome P450 reductase, is a flavoprotein that donates electrons to all microsomal P450 enzymes. POR is localized to the endoplasmic reticulum, where it is also able to transfer electrons to heme oxygenase and cytochrome b5. It is structurally related to two separate flavoprotein families,

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ferredoxin nucleotide reductase and flavodoxin. Recombinant human POR, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

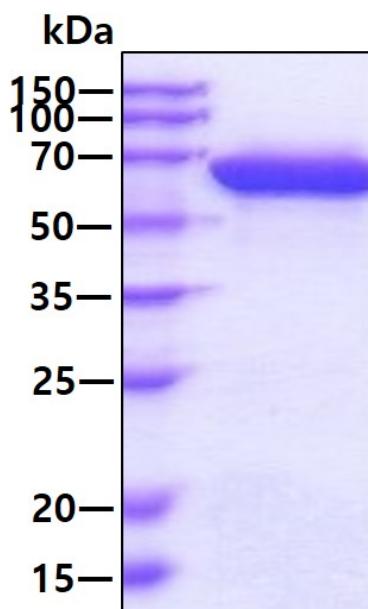
MINMGDSHVD TSSTVSEAVA EEVSLFSMTD MILFSLIVGL LTYWFLFRKK KEEVPEFTKI QTLTSSVRES SFVEKMKTG RNIIVFYGSQ TGTAEEFANR LSKDAHRYGM RGMSADPEEY DLADLSSLPE IDNALVVFCM ATYGEGDPTD NAQDFYDWLQ ETDVDLSGVK FAVFGLGNKT YEHFNAMGKY VDKRLEQLGA QRIFELGLGD DDGNLEEDFI TWREQFWLAV CEHFGVEATG EESSIRQYEL VVHTDIDA AK VYMGEMGRLK SYENQKPPFD AKNPFLAAVT TNRKLNQGTE RHLMHLELDI SDSKIRYESG DHVAVYPAND SALVNQLGKI LGADLDVVMS LNNLDEESNK KHPFPCPTSY RTALTYYLDI TNPPRTNVLY ELAQYASEPS EQELLRKMAS SSGEGKELYL SWVVEARRHI LAILQDCPSL RPPIDHLCEL LPRLQARYYS IASSSKVHPN SVHICAVVVE YETKAGRINK GVATNWLRACK EPVGENGGRA LVPMFVRKSQ FRLPFKATTP VIMVPGTG VAPFIGFIQER AWLRQQGKEV GETLLYYGCR RSDEDYLYRE ELAQFHRDGA LTQLNVAFSR EQSHKVYVQH LLKQDREHLW KLIEGGAHIY VCGDARNMAR DVQNTFYDIV AELGAMEHAQ AVDYIKKLMT KGRYSLDVWS <HHHHHH>

## General References

- Shen A L, et al. (1989). J Biol Chem. 264:7584-7589.  
Haniju M, et al. (1989). Biochemistry. 28:8639-8645.

## DATA

### SDS-PAGE



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