

Recombinant human Cytochrome p450 reductase/POR protein

Catalog Number: ATGP4077

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-680aa

UniProt No.

P16435

NCBI Accession No.

NP_000932.1

Alternative Names

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

PRODUCT SPECIFICATION

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)

Biological Activity

Specific activity is > 4000 pmol/min/ug, and is defined as the amount of enzyme that catalyze the reduction of 1.0 pmole cytochrome C by NADPH per minute at pH8.0 at 25C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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.

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BACKGROUND

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

Amino acid Sequence

MINMGDSHVD TSSTVSEAVA EEVSLFSMTD MILFSLIVGL LTYWFLFRKK KEEVPEFTKI QTLTSSVRES SFVEKMKKTG
RNIIVFYGSQ TGTAEFANR LSKDAHRYGM RGMSADPEEY DLADLSSLPE IDNALVVFCM ATYGEGDPTD NAQDFYDWLQ
ETDVDLSGVK FAVFGLGNKT YEHFNAMGKY VDKRLEQLGA QRIFELGLGD DDGNLEEDFI TWREQFWLAV CEHFGVEATG
EESSIRQYEL VVHTDIDAAK VYMGEMGRLK SYENQKPPFD AKNPFLAAVT TNRKLNQGTE RHLMHLELDI SDISKIRYESG
DHVAVYPAND SALVNQLGKI LGADLDVVMs LNNLDEESNK KHPFPCPTSY RTALTYYLDI TNPRTNVLY ELAQYASEPS
EQELLRKMAS SSGEGKELYL SWVVEARRHI LAILQDCPSL RPPIDHLCEL LPRLQARYYS IASSSKVHPN SVHICAVVVE
YETKAGRINK GVATNWLRAK EPVGENGGRA LVPMFVRKSQ FRLPFKATTP VIMVGPGTGV APFIGFIQER AWLRQQGKEV
GETLLYYGCR RSDDEDLYRE ELAQFHRDGA LTQLNVAFSR EQSHKVYVQH LLKQDREHLW KLIEGGAHIY VCGDARNMAR
DVQNTFYDIV AELGAMEHAQ AVDYIKKLMT KGRYSLDVWS <HHHHHH>

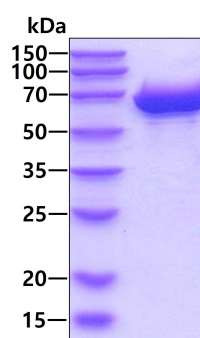
General References

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.