

Recombinant human Cytochrome p450 reductase/POR protein

Catalog Number: ATGP3921

PRODUCT INFORMATION

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

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

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,

Recombinant human Cytochrome p450 reductase/POR protein

Catalog Number: ATGP3921

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 SFVEKMKKTG
RNIIVFYGSQ TGTAEEFANR LSKDAHRYGM RGMSADPEEY DLADLSSLPE IDNALVVFCM ATYGEGDPTD NAQDFYDWLQ
ETDVDLSGVK FAVFGLGNKT YEHFNAMGKY VDKRLEQLGA QRIFELGLGD DDGNLEEDFI TWREQFWLAV CEHFGVEATG
EESSIRQYEL VVHTDIDAAK VYMGEMGRLK SYENQKPPFD AKNPFLAAVT TNRKLNQGT E RHLMHLELDI SSKIRYESG
DHVAVYPAND SALVNQLGKI LGADLDVMS LNNLDEESNK KHPFPCPTSY RTALTYLDI TNPRTNVLY ELAQYASEPS
EQELLRKMAS SSGEGKELYL SWVVEARRHI LAILQDCPSL RPPIDHLC EL LPRLQARYYS IASSSKVHPN SVHICAVVVE
YETKAGRINK GVATNWLRAK EPVGENGGRA LVPMFVRKSQ FRLPFKATP VIMVGP GTGV APFIGFIQER AWLRQQGKEV
GETLLYGC RSD E D YLYRE ELAQFHRDGA LTQLNVAFSR EQSHKYVYQH LLKQDREHLW KLIEGGAHIY VCGDARNMAR
DVQNTFYDIV AELGAMEHAQ AVDYIKKLM T 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.

