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Recombinant human POR protein

Catalog Number: ATGP4107

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

43-677aa

UniProt No.

P16435

NCBI Accession No.

NP 001382342.1

Alternative Names

NADPH--cytochrome P450 reductase, NADPH--cytochrome P450 reductase, CPR, CYPOR, P450R

PRODUCT SPECIFICATION

Molecular Weight

73kDa (642aa)

Concentration

0.5mg/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 > 1,500 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.

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, 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

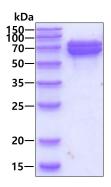
MLFRKKKEEV PEFTKIQTLT SSVRESSFVE KMKKTGRNII VFYGSQTGTA EEFANRLSKD AHRYGMRGMS ADPEEYDLAD LSSLPEIDNA LVVFCMATYG EGDPTDNAQD FYDWLQETDV DLSGVKFAVF GLGNKTYEHF NAMGKYVDKR LEQLGAQRIF ELGLGDDDGN LEEDFITWRE QFWPAVCEHF GVEATGEESS IRQYELVVHT DIDAAKVYMG EMGRLKSYEN QKPPFDAKNP FLAAVTTNRK LNQGTERHLM HLELDISDSK IRYESGDHVA VYPANDSALV NQLGKILGAD LDVVMSLNNL DEESNKKHPF PCPTSYRTAL TYYLDITNPP RTNVLYELAQ YASEPSEQEL LRKMASSSGE GKELYLSWVV EARRHILAIL QDCPSLRPPI DHLCELLPRL QARYYSIASS SKVHPNSVHI CAVVVEYETK AGRINKGVAT NWLRAKEPAG ENGGRALVPM FVRKSQFRLP FKATTPVIMV GPGTGVAPFI GFIQERAWLR QQGKEVGETL LYYGCRRSDE DYLYREELAQ FHRDGALTQL NVAFSREQSH KVYVQHLLKQ DREHLWKLIE GGAHIYVCGD ARNMARDVQN TFYDIVAELG AMEHAQAVDY IKKLMTKGRY SLDVWS<HHHH HH>

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

