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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**

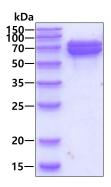
MLFRKKKEEV PEFTKIQTLT SSVRESSFVE KMKKTGRNII VFYGSQTGTA EEFANRLSKD AHRYGMRGMS ADPEEYDLAD LSSLPEIDNA LVVFCMATYG EGDPTDNAQD FYDWLQETDV DLSGVKFAVF GLGNKTYEHF NAMGKYVDKR LEQLGAQRIF ELGLGDDDGN LEEDFITWRE QFWPAVCEHF GVEATGEESS IRQYELVVHT DIDAAKVYMG EMGRLKSYEN QKPPFDAKNP FLAAVTTNRK LNQGTERHLM HLELDISDSK IRYESGDHVA 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

