

POR, 1-680aa, Human, His tag, Insect cell

Cat.NO.: TP03475

3th Edition

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

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.

Form:Liquid. In Phosphate buffer saline (pH 7.4) containing 10% glycerol.

Molecular Weight:77.9kDa (686aa)

Sequences:

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MINMGDSHVDTSSSTVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFTKIQTLTSSVRESSFVEKMKK
TGRNIIIFYGSQTGTAEFANRLSKDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCEMATYGEDPTDNAQD
FYDWLQETDVDLSGVKFAVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDDGNLEEDFITWREQFWLA
VCEHFGVEATGEESIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDAKNPFLLAAVTTNRKLNQGTERHLM
HLELDISDSKIRYESGDHVAVYPANDSALVNQLGKILGADLDVVMVSLNNLDEESNKKHPFPCPTSYRTALTYLDITN
PPRTNVLYELAQYASEPSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQARYY
SIASSKVPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVPMFVRKSQFRLPFKATTPVIMVG
PGTGVAFIGFIQERAWLRQQGKEVGETLLYYGCRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVVYVQH
LLKQDREHLWKLIEGGAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVVSHHHHH
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Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.