

32-13695: POR Human, Active

Format : POR protein solution (0.25mg/ml) contains Phosphate buffer saline (pH 7.4) and 10% glycerol.
Alternative Name : P450 (Cytochrome) Oxidoreductase, EC 1.6.2.4, CYPOR, P450R, CPR, NADPH-Dependent Cytochrome P450 Reductase, NADPH--Cytochrome P450 Reductase, NADPH--cytochrome P450 reductase.

Description

Source:Sf9, Baculovirus cells.

Physical Appearance: Sterile filtered colorless solution.

Biological Activity Specific activity is > 4,000 pmol/min/mg. Defined by the amount of enzyme that reduction of 1 pmole cytochrome-C by NADPH/min. at pH-8 25C.

P450 Oxidoreductase, also known as POR is a flavoprotein which contributes electrons to all microsomal P450 enzymes. POR is localized to the endoplasmic reticulum, where it is also capable of transferring electrons to heme oxygenase as well as cytochrome b5. POR is structurally related to two separate flavoprotein families; first one is ferredoxin nucleotide reductase and the second flavodoxin.

POR produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 686 amino acids (1-680a.a.) and having a molecular mass of 77.9kDa. POR is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 10 µg / 2 µg
Purification : Greater than 95.0% as determined by SDS-PAGE.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : 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 TNRKLNQGTE RHLMHLELDI SDSKIRYESG DHVAVYPAND SALVNQLGKI LGADLDVMS LNNLDEESNK KHPFPCPTSY RTALTYLDI TNPPRTNVLY ELAQYASEPS EQELLRKMAS SSGEGKELYL SWVVEARRHI LAILQDCPSL RPPIDHLCLEL LPRLQARYYS IASSSKVHPN SVHICAVVVE YETKAGRINK GVATNWLRK EPVGENGGRA LVPFMVRSQ FRLPFKATTP VIMVPGTGV APFIGFIQER AWLRQOGKEV GETLLYGCGR RSEDEDYLYRE ELAQFHRDGA LTQLNVAFSR EQSHKVYVQH LLKQDREHLW KLIEGGAHIY VCGDARNMAR DVQNTFYDIV AELGAMEHAQ AVDYIKKLMT KGRYSLDVWS HHHHHH.