

Active Recombinant human POR protein (43-677aa), C-6×His-tagged

Cat. No. POR-38H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human POR protein (43-677aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	43-677
Description	This gene encodes an endoplasmic reticulum membrane oxidoreductase that is essential for multiple metabolic processes, including reactions catalyzed by cytochrome P450 proteins for metabolism of steroid hormones, drugs and xenobiotics. The encoded protein has a flavin adenine dinucleotide (FAD)-binding domain and a flavodoxin-like domain which bind two cofactors, FAD and FMN, that allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene cause a complex set of disorders, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome, that resemble those caused by defects in steroid metabolizing enzymes such as aromatase, 21-hydroxylase, and 17 alpha-hydroxylase.
Form	Liquid

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Bio-activity	Specific activity is > 1,500 pmol/min/mg, 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 25 centigrade.
Molecular Mass	73kDa (642aa)
AA Sequence	MLFRKKKEEVPEFTKIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEEFANRLS KDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCMATYGEGDPTDNAQDFYD WLQETDVDLSGVKFAVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDD GNLEEDFITWREQFWPAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGR LKSyenQKPPFDAKNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAV YPANDSALVNQLGKILGADLDVVMNLNDEESNKKHPFPCPTSYRTALTYLDITNP PRTNVLYELAQYASEPSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSL RPPIDHLCCELLPRLQARYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLR AKEPAGENGGRALVPMFVRKSQFRLPFKATTPVIMVGPGTGVAFIGFIQERAWLR QQGKEVGETLLYYGCRRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQ HLLKQDREHLWKIEGGAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIK KLMTKGRYSLDVWS
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name POR P450 (cytochrome) oxidoreductase [Homo sapiens (human)]

Official Symbol POR

Synonyms POR; P450 (cytochrome) oxidoreductase; NADPH--cytochrome P450 reductase; CYPOR; FLJ26468; NADPH-dependent cytochrome P450 reductase; CPR; P450R; DKFZp686G04235

Gene ID 5447

mRNA Refseq NM_000941

Protein Refseq NP_001382342

MIM 124015

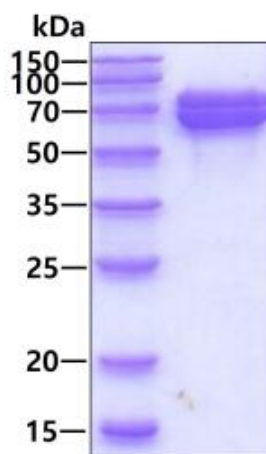
UniProt ID P16435

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SDS-PAGE



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