

Recombinant Human POR

Cat. No. POR-26693TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cytochrome P450 Reductase with proprietary tag, 100.87kDa.
Species	Human
Source	Wheat Germ
ProteinLength	680 amino acids
Description	This gene encodes an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, FAD and FMN, which allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene have been associated with various diseases, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome.
Molecular Weight	100.870kDa inclusive of tags
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl Note: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	<p>MINMGDSHVDTSSSTVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFT KIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSA DPEEYDLADLSSLPEIDNALVFCMATYGECDPTDNAQDFYDWLQETDVDLSGVKF AVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDDGNLEEDFITWREQFW LAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDAKN PFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKIL GADLDVVMNLNLDDESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQYASE PSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQA RYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVP MFVRKSQFRLPFKATTPVIMVGPVGTGVAPFIGFIQERAWLRQQGKEVGETLLYYGC RRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEG GAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS</p>
Sequence Similarities	In the C-terminal section; belongs to the flavoprotein pyridine nucleotide cytochrome reductase family. Contains 1 FAD-binding FR-type domain. Contains 1 flavodoxin-like domain.

GENE INFORMATION

Gene Name	POR P450 (cytochrome) oxidoreductase [Homo sapiens]
Official Symbol	POR
Synonyms	POR; P450 (cytochrome) oxidoreductase; NADPH--cytochrome P450 reductase; CYPOR; FLJ26468;

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Gene ID	5447
mRNA Refseq	NM_000941
Protein Refseq	NP_000932
MIM	124015
Uniprot ID	P16435
Chromosome Location	7q11.2
Pathway	1,25-dihydroxyvitamin D3 biosynthesis, conserved biosystem;
Function	FMN binding; NADP binding; NADPH-hemoprotein reductase activity; NADPH-hemoprotein reductase activity; cytochrome-b5 reductase activity;

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