

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HClNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MINMGDSHVDTSSSTVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFT KIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSA DPEEYDLADLSSLPEIDNALVFCMATYGEDPTDNAQDFYDWLQETDVDLSGVKF AVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNNLEEDFITWREQFW LAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDAKN PFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKIL GADLDVVMNLNNLDEESNKKHPFCPTSYRTALTYLDITNPPRTNVLYELAQYASE PSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQA RYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVP MFVRKSQFRLPFKATTPVIMVGP GTGVAPFIGFIQERAWLRQQGKEVGETLLYYGC RRSDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEG GAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS
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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA