

## Recombinant Full Length Human POR Protein

**Cat. No.** POR-387HF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant full length Human Cytochrome P450 Reductase with proprietary tag, 100.87kDa.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | In Vitro Cell Free System   |
| <b>ProteinLength</b>    | 680 amino acids   |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid  |
| <b>Molecular Mass</b>   | 100.870kDa inclusive of tags  |
| <b>AA Sequence</b>      | MINMGDSHVDTSSSTVSEAVAEVSLFSMTDMILFSLIVGLLLTYWFLFRKKKEEVPEFT<br>KIQTLTSSVRESSFVEKMKKTGRNIIIFYGSQTGTAEFANRLSKDAHRYGMRGMSA<br>DPEEYDLADLSSLPEIDNALVFCMATYGEDPTDNAQDFYDWLQETDVDLSGVKF<br>AVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDDGNLEEDFITWREQFW  |

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

LAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDAKN  
PFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKIL  
GADLDVVMNLNDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQYASE  
PSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQA  
RYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVP  
MFVRKSQFRLPFKATTPVIMVGPVGTGVAPFIGFIQERAWLRQQGKEVGETLLYYGC  
RRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEG  
GAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS

**Purity** Proprietary Purification

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

**Gene Name** [POR P450 \(cytochrome\) oxidoreductase \[ Homo sapiens \]](#)

**Official Symbol** [POR](#)

**Synonyms** POR; P450 (cytochrome) oxidoreductase; NADPH--cytochrome P450 reductase; CYPOR; FLJ26468

**Gene ID** [5447](#)

**mRNA Refseq** [NM\\_000941](#)

**Protein Refseq** [NP\\_000932](#)

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| <b>MIM</b> | 124015 |
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| <b>UniProt ID</b> | P16435 |
|-------------------|--------|

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