

Recombinant Full Length Human POR Protein

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

SPECIFICATION

Product Overview	Recombinant full length Human Cytochrome P450 Reductase with proprietary tag, 100.87kDa.
Species	Human
Source	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	100.870kDa inclusive of tags
AA Sequence	MINMGDSHVDTSSTVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFT KIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSA DPEEYDLADLSSLPEIDNALVVFCEMATYGECDPTDNAQDFYDWLQETDVLDSGVKF AVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNNLEEDFITWREQFW

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LAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDAKN
PFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKIL
GADLDVVMNLNDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQYASE
PSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQA
RYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVP
MFVRKSQFRLPFKATTPVIMVPGTGVAPFIGFIQERAWLRQQGKEVGETLLYYGC
RRSDDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEG
GAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKMTKGRYSLDVWS

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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MIM	124015
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UniProt ID	P16435
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