

Recombinant Human POR Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POR-761H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POR MS Standard C13 and N15-labeled recombinant protein (NP_000932) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	77.1 kDa
AA Sequence	MINMGDSHVDTSSSTVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFT KIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSA DPEEYDLADLSSLPEIDNALVFCMATYGEDPTDNAQDFYDWLQETDVDLSGVKF AVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNLEEDFITWREQFW LAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDAKN PFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKIL

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GADLDVVMSLNNLDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQYASE
 PSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQA
 RYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVP
 MFVRKSQFRLPFKATTPVIMVGPVGTGVAPFIGFIQERAWLRQQGKEVGETLLYYGC
 RRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEG
 GAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVVWST
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name POR cytochrome p450 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

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mRNA Refseq [NM_000941](#)

Protein Refseq [NP_000932](#)

MIM [124015](#)

UniProt ID [P16435](#)

SDS-PAGE



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