

Recombinant Full Length Human POR Protein, C-Flag-tagged

Cat. No. POR-846HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human POR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes an endoplasmic reticulum membrane oxidoreductase that is essential for multiple metabolic processes, including reactions catalyzed by cytochrome P450 proteins for metabolism of steroid hormones, drugs and xenobiotics. The encoded protein has a flavin adenine dinucleotide (FAD)-binding domain and a flavodoxin-like domain which bind two cofactors, FAD and FMN, that allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene cause a complex set of disorders, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome, that resemble those caused by defects in steroid metabolizing enzymes such as aromatase, 21-hydroxylase, and 17 alpha-hydroxylase.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	76.9 kDa
AA Sequence	MINMGDSHVDTSSTVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFT KIQTLTSSVRES SFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMS

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

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

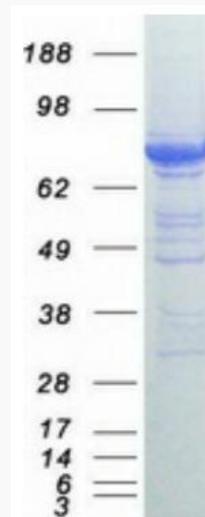
 45-1 Ramsey Road, Shirley, NY 11967, USA

ADPEEYDLADLSSLPEIDNALVVFCM ATYGEGDPTDNAQDFYDWLQETDVDLSGVK
 FAVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGD DDGNLEEDFITWREQF
 WLAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFD A
 KNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLG
 KILGADLDVMS LNNLDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQY
 ASEPSEQELLRKMASSSGEGKELYL SWVVEARRHILAILQDCPSLRPPIDHLCCELLP
 RLQARYYSIASSSKVHPNSVHICAVVVEYETKAGRINK GVATNWLRAKEPVGENG
 RALVPMFVRKSQFRLPFKATTPVIMVGPGTGVPFIGFIQERAWLRQQGKEV GETL
 LYYGCRRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHL
 WKLIEGGAHIY
 VCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWSTRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, P450, Transmembrane
Full Length	Full L.

GENE INFORMATION

Gene Name	POR cytochrome p450 oxidoreductase [Homo sapiens (human)]
Official Symbol	POR
Synonyms	CPR; CYPOR; P450R
Gene ID	5447
mRNA Refseq	NM_001367562.3
Protein Refseq	NP_001354491.2
MIM	124015
UniProt ID	P16435



Coomassie blue staining of purified POR protein.