

Product datasheet for PH302172

Cytochrome P450 Reductase (POR) (NM_000941) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	POR MS Standard C13 and N15-labeled recombinant protein (NP_000932)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202172
Predicted MW:	77.1 kDa
Protein Sequence:	>RC202172 protein sequence Red=Cloning site Green=Tags(s)

MINMGDHSVDTSSVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFTKIQTLTSSVRES
SFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVVF
ATYEGDPTDNAQDFYDWLQETDVLGKFAVFLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGD
DDGNLEEDFITWREQFWLAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRKLSYENQKPPFD
AKNPFLAAVTTNRKLNQGTERRHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKILGADLDVMS
LNNLDEESNKKHPFCPTSYRTALTYLDITNPPRTNVL YELAQYASEPSEQELLRKMASSGEGKELYL
SWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQARYYSIASSKVPNSVHICAVVVEYETKAGRINK
GVATNWLRAKEPVGENGGRALVPMFVRKSQFRLPFKATTPVIMVGPPTGVAPFIGFIQERAWLRQQGKEV
GETLLYGCRRSDEDYLYREELAQFHRDGLTQLNVAFSREQSHKVVYVQHLLKQDREHLWKLIEGGAHIY
VCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000932
RefSeq Size:	2509



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RefSeq ORF: 2040

Synonyms: CPR; CYPOR; P450R

Locus ID: 5447

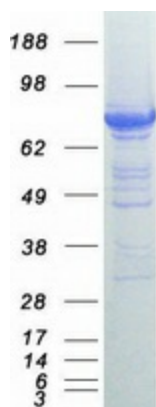
UniProt ID: [P16435](#)

Cytogenetics: 7q11.23

Summary: 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. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, P450, Transmembrane

Product images:



Coomassie blue staining of purified POR protein (Cat# [TP302172]). The protein was produced from HEK293T cells transfected with POR cDNA clone (Cat# [RC202172]) using MegaTran 2.0 (Cat# [TT210002]).