

## Product datasheet for TP302172

### Cytochrome P450 Reductase (POR) (NM\_000941) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human P450 (cytochrome) oxidoreductase (POR), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202172 protein sequence Red=Cloning site Green=Tags(s)

MINMGDSHVDTSSVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFTKIQTLTSSVRES  
SFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVFCM  
ATYGEDPTDNAQDFYDWLQETDVDLSGVKFAVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGD  
DDGNLEEDFITWREQFWLAVCEHFGVEATGEESIRQYELVVHTDIDAAKVVMGEMGRLKSYENQKPPFD  
AKNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKILGADLDVMS  
LNNLDEESNKKHPFCPTSRYRTALTYLDITNPPRTNVLYELAQYASEPSEQELLRKMSSSGEGKELYL  
SWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQARYYSIASSSKVHPNSVHICAVVVEYETKAGRINK  
GVATNWLRAKEPVGENGGRALVPMFVRKSQFRLPFKATTPVIMVPGTGVAPFIGFIQERAWLRQQGKEV  
GETLLYYGCRRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVVVQHLLKQDREHLWKLIEGGAHIY  
VCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	76.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_000932](#)

**Locus ID:** 5447

**UniProt ID:** [P16435](#)

**RefSeq Size:** 2509

**Cytogenetics:** 7q11.23

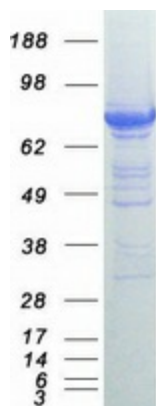
**RefSeq ORF:** 2040

**Synonyms:** CPR; CYPOR; P450R

**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]).