

Bioactive

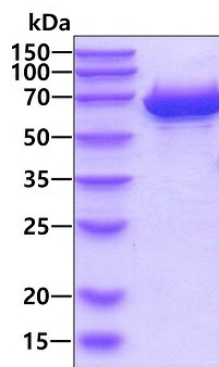
Full-Length

POR (Human) Recombinant Protein

Catalog # P7905

Size 50 ug

Applications



SDS-PAGE analysis of PRO (Human) Recombinant Protein.

Specification

Product Description

Human POR (P16435, 1 a.a. - 680 a.a.) full-length recombinant protein with His tag expressed in Baculovirus.

Sequence

MINMGDSHVDTSSTVSEAVAEVSLFSMTDMILFSLVGLLTYWFLFRKKKEEVPEFTKIQTLTSSV
RESSFVEKMKKTGRNIVFYGSQTGTAEFANRLSKDAHRYGMRGMSADPEEYDLADLSSLPEID
NALVVFCMATYGECDPTDNAQDFYDWLQETDVLDSGVKFAVFGLGNKTYEHFNAMGKYVDKRL
EQLGAQRIFELGLGDDDDGNLEEDFITWREQFWLAVCEHFGVEATGEESSIRQYELVVHTDIDAAK
VYMGEMGRKLSYENQKPPFDAKNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAV
YPANDSALVNQLGKILGADLDVMSLNNLDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYEL
AQYASEPSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQARY
YSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVPMFVRKSQFRL
PFKATTPVIMVGP GTGVAPFIGFIQERAWLRQQGKEVGETLLYGCRRSDEDLYREELAQFHRD
GALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEGGAHIYVCGDARNMARDVQNTFYDVAEL
GAMEHAQAVDYKKLMTKGRYSLDVWSMINMGDSHVDTSSTVSEAVAEVSLFSMTDMILFSLV
GLLTYWFLFRKKKEEVPEFTKIQTLTSSVRESSFVEKMKKTGRNIVFYGSQTGTAEFANRLSKDA
HRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCMATYGECDPTDNAQDFYDWLQETDVLDSG
VKFAVFGLGNKTYEHFNAMGKYVDKRL EQLGAQRIFELGLGDDDDGNLEEDFITWREQFWLAVCE
HFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRKLSYENQKPPFDAKNPFLAAVTTNRKLNQ
GTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKILGADLDVMSLNNLDEESNKKH
PFPCPTSYRTALTYLDITNPPRTNVLYELAQYASEPSEQELLRKMASSSGEGKELYLSWVVEARR
HILAILQDCPSLRPPIDHLCCELLPRLQARYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNW
LRAKEPVGENGGRALVPMFVRKSQFRLPFKATTPVIMVGP GTGVAPFIGFIQERAWLRQQGKEV
GETLLYGCRRSDEDLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEG
GAHIYVCGDARNMARDVQNTFYDVAELGAMEHAQAVDYKKLMTKGRYSLDVWSHHHHHH

Host	Viruses
Theoretical MW (kDa)	77.90000000000001
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 95% as analyzed by SDS-PAGE.
Endotoxin Level	< 1 EU/ug of protein by the LAL method.
Activity	Specific activity is > 4000 pmol/min/mg, and is defined as the amount of enzyme that catalyze the red uction of 1.0 pmole cytochrome C by NADPH per minute at pH8.0 at 25°C.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of PRO (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol)
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — POR

Entrez GeneID [5447](#)

Protein Accession# [P16435](#)

Gene Name POR

Gene Alias CPR, CYPOR, DKFZp686G04235, FLJ26468, P450R

Gene Description P450 (cytochrome) oxidoreductase

Omim ID [124015 201750](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations NADPH-dependent cytochrome P450 reductase|cytochrome P450 reductase

Disease

- [Adrenal hyperplasia](#)
- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Bone Diseases](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Social Perception](#)