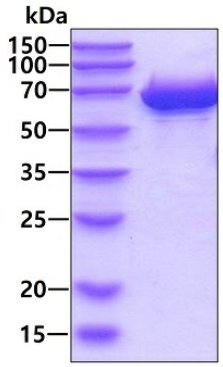
Bioactive Full-Length

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.

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Sequence	MINMGDSHVDTSSTVSEAVAEEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFTKIQTLTSSV RESSFVEKMKKTGRNIIVFYGSQTGTAEEFANRLSKDAHRYGMRGMSADPEEYDLADLSSLPEID NALVVFCMATYGEGDPTDNAQDFYDWLQETDVDLSGVKFAVFGLGNKTYEHFNAMGKYVDKRL EQLGAQRIFELGLGDDDGNLEEDFITWREQFWLAVCEHFGVEATGEESSIRQYELVVHTDIDAAK VYMGEMGRLKSYENQKPPFDAKNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAV YPANDSALVNQLGKILGADLDVVMSLNNLDEESNKKHPFPCPTSYRTALTYYLDITNPPRTNVLYEL AQYASEPSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCELLPRLQARY YSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVPMFVRKSQFRL PFKATTPVIMVGPGTGVAPFIGFIQERAWLRQQGKEVGETLLYYGCRRSDEDYLYREELAQFHRD GALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEGGAHIYVCGDARNMARDVQNTFYDIVAEL GAMEHAQAVDYIKKLMTKGRYSLDVWSMINMGDSHVDTSSTVSEAVAEEVSLFSMTDMILFSLIV GLLTYWFLFRKKKEEVPEFTKIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEEFANRLSKDA HRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCMATYGEGDPTDNAQDFYDWLQETDVDLSG VKFAVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNLEEDFITWREQFWLAVCE HFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDAKNPFLAAVTTNRKLNQ GTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKILGADLDVVMSLNNLDEESNKKH PFPCPTSYRTALTYYLDITNPPRTNVLYELAQYASEPSEQELLRKMASSSGEGKELYLSWVVEARR HILAILQDCPSLRPPIDHLCELLPRLQARYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNW LRAKEPVGENGGRALVPMFVRKSQFRLPFKATTPVIMVGPGTGVAPFIGFIQERAWLRQQGKEV GETLLYYGCRRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEG GAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWSHHHHHH
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

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- 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 do main 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 P450C 21 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

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- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Kidney Failure
- Social Perception

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