

Recombinant Human POR Protein Product Manual

1. Product Basic Information

Product No.: REP07846

Protein Name: Nadph--Hemoprotein Reductase (POR)

Aliases: CPR; CYPOR; P450R; NADPH--hemoprotein reductase; cytochrome p450 oxidoreductase; NADPH--cytochrome P450 reductase; P450 (cytochrome) oxidoreductase; NADPH-dependent cytochrome P450 reductase

UniProt ID: P16435

UniProt Link: <https://www.uniprot.org/uniprotkb/P16435/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Partial of BC034277 (2-671aa)

Molecular Weight: 102.9kDa

Protein Tag: N-terminal GST-tagged

2. Amino Acid Sequence (2-671aa)

INMGDSHVDTSSSTVSEAVAAEEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVPEFTK
IQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSA
DPEEYDLADLSSLPEIDNALVFCMATYGEDPTDNAQDFYDWLQETDVDLSGVKF
AVFGLGNKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNLEEDFITWREQF
WLAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRLKSYENQKPPFDA
KNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQL
GKILGADLDVMSLNNLDEESNKKHPFPCPTSRYRTALTYLDITNPPRTNVLYELAQ
YASEPSEQELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELL
PRLQARYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENG
GRALVPMFVRKSQFRLPFKATTPVIMVGPVGTGVAPFIGFIQERAWLRQQGKEVGET
LLYYGCRRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREH
LWKLIEGGAHIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTK

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom



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glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human POR partial of bc034277 protein (2-671aa) expressed in E.coli. The protein is with GST tag at the N-terminus, which facilitates protein purification, detection and identification. POR, also known as CPR or CYPOR or P450R, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.