

# Recombinant Full Length Spinacia Oleracea Photosystem II Cp47 Chlorophyll Apoprotein(Psbb) Protein, His-Tagged

**Cat. No.** RFL13137SF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Spinacia oleracea Photosystem II CP47 chlorophyll apoprotein(psbB) Protein (P04160) (1-508aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Spinacia oleracea (Spinach)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Full Length (1-508)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MGLPWYRVHTTVLNDPGRLLSVHIMHTALVAGWAGSMALYELAVFDPSPDVLDP<br>WRQGM FVIPFMTRLGITNSWGGWSITGGTITDPGIWSYEGVAGAHIMFSGLCFLAAI<br>WHWVYWDL EIFSDERTGKPSLDLPKIFGIHLFLSGVACFGFGAFHVTGLYGPGIWW<br>SDPYGLTGKVQP VSPAWGVEGFDPFVPGGIASHHIAAGTLGILAGLFHLSVRPPQR<br>LYKGLRMGNIETVLSS SIAAVFFAAFFVAGTMWYGSATTPIELFGPTRYQWDQGYF<br>QQEIYRRVSAGLAENQSFSE AWSKIPEKLAFYDYIGNNPAKGGLFRAGSMDNGDGI<br>AVGWLGHPIFRDKEGRELFVRRMP TFFETFPVVLIDGDGIVRADVPFRRRAESKYSVE<br>QVGVTVEFYGGELNGVSYSDPATVKKY ARRAQLGEIFELDRATLKSDGVFRSSPRG<br>WFTFGHASFALLFFFGHIWHGSRTLFRDVFA GIDPDLVQVEFGAFQKIGDPTTRR<br>QGV |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                |                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes          | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                         |
| Storage        | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                              |
| Storage Buffer | Tris/PBS-based buffer, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                 |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |

## GENE INFORMATION

|            |                                                                                       |
|------------|---------------------------------------------------------------------------------------|
| Gene Name  | psbB                                                                                  |
| Synonyms   | psbB; Photosystem II CP47 reaction center protein; PSII 47 kDa protein; Protein CP-47 |
| UniProt ID | P04160                                                                                |

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