



# Recombinant Phenylalanine--tRNA ligase alpha subunit (pheS)

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| <b>Product Code</b>      | CSB-BP716786SMZ                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Abbreviation</b>      | pheS                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                             |
| <b>Uniprot No.</b>       | Q5XCX4                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Immunogen Species</b> | Streptococcus pyogenes serotype M6 (strain ATCC BAA-946 / MGAS10394)                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sequence</b>          | MDLQAQLEEL KTKTLETLS LTGNHTKELQ DLRVAVLGKK GSLTELLKGL<br>KDLSNDLRPV VGKQVNEVRD LLTKAFEEQA KIVEAAKIQA QLDAESIDVT<br>LPGRQMTLGH RHVLTQTSEE IEDIFLGMGF QIVDGFVEVEK DYYNFERMNL<br>PKDHPARDMQ DTFYITEEIL LRHTSPVQA RTLDQHDFSK GPLKMOVSPGR<br>VFRRTDDAT HSHQFHQIEG LVVGKNISMG DLKGTLEMII KKMFGGEERSI<br>RLRPSYFPFT EPSVEVDVSC FKCGGKGCNV CKKTGWIEIL GAGMVHPSVL<br>EMSGVDAKEY SGFAFGLGQE RIAMLRGIN DIRGFYQGDQ RFSEQFN |
| <b>Source</b>            | Baculovirus                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Target Names</b>      | pheS                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Names</b>     | Recommended name: Phenylalanine--tRNA ligase alpha subunit EC= 6.1.1.20<br>Alternative name(s): Phenylalanyl-tRNA synthetase alpha subunit Short name= PheRS                                                                                                                                                                                                                                                   |
| <b>Expression Region</b> | 1-347                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                            |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Length</b>    | full length protein                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Reconstitution</b>    | 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.    |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                             |