

## Pantothenate Kinase Protein (Recombinant)

Catalogue No.: abx073459

Pantothenate Kinase Protein (Recombinant) is a protein kinase. COAA is a member of the prokaryotic pantothenate kinase family and it is the first enzyme in the Coenzyme A biosynthetic pathway. COAA phosphorylates pantothenate (vitamin B5) to form 4'-phosphopantothenate. The key factor controlling the intracellular CoA concentration is the regulation of COAA activity by feedback inhibition.

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| <b>Target:</b>            | COAA                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Origin:</b>            | E. coli                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Host:</b>              | E. coli                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity:</b>            | > 95% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purification:</b>      | Purified by proprietary chromatographic techniques.                                                                                                                                                                                                                                                                                                                                                |
| <b>Form:</b>              | Liquid                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage:</b>           | Store at 4 °C if entire vial will be used within 2-4 weeks. Store at -20 °C for long-term storage. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.                                                                                                                                                                          |
| <b>Molecular Weight:</b>  | 38.9 kDa                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Swiss Prot:</b>        | <a href="#">P0A6I3</a>                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence Fragment:</b> | 1-316 AA                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequence:</b>          | MGSSHHHHHH SSGLVPRGSH MGSMSIKEQ TLMPYQLQFD RNQWAALRDS VPMTLSEDEI<br>ARLKGINEDL SLEEVAEIYL PLSRLLNFYI SSNLRRQAVL EQFLGTNGQR IPYIISIAGS VAVGKSTTAR<br>VLQALLSRWP EHRRVELITT DGFLHPNQVL KERGLMKKKG FPESYDMHRL VKFVSDLKSG<br>VPNVTPVYS HLIYDVIPDG DKTVVQPDIL ILEGLNVLQS GMDYPHDPHH VVVSDFVDFS<br>IYVDAPEDLL QTWYINRFLK FREGAFTDPD SYFHNYAKLT KEEAIKTAMT LWKEINWNL<br>KQNILPTRER ASLILTKSAN HAVEEVRLRK. |
| <b>Tag:</b>               | N-terminal His-tag.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration:</b>     | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Buffer:</b>            | 20 mM Tris-HCl (pH 8.0), 200 mM NaCl, 2 mM DTT and 10% glycerol.                                                                                                                                                                                                                                                                                                                                   |
| <b>Note:</b>              | This product is for research use only.                                                                                                                                                                                                                                                                                                                                                             |