

## Polyphosphate kinase / ppk - Purified

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| <b>Catalog No.:</b>      | PA1268   |
| <b>Quantity:</b>         | 50 U   |
| <b>Background:</b>       | PPK catalyzes the reversible transfer of phosphate between polyphosphate and ATP. The phosphorylation of ADP to ATP by polyphosphate kinase is by a processive mechanism; the phosphorylation occurs without release of the polymer from the enzyme prior to termination of the reaction.  |
| <b>Uniprot ID:</b>       | <a href="#">D7GG25</a>   |
| <b>NCBI:</b>             | <a href="#">YP_003688902.1</a>   |
| <b>GeneID:</b>           | <a href="#">9283018</a>  |
| <b>Source:</b>           | P. shermanii, Propionibacterium shermanii  |
| <b>Format:</b>           | <b>State:</b> Sterile filtered white lyophilized powder<br><b>Buffer System:</b> 11.54 U/ml of PPK activity, 10.3 mg/ml total protein, 100 mM potassium phosphate pH 6.8 and 25 mM sodium polyphosphate<br><b>Reconstitution:</b> Reconstituted in 1-10 ml deionized water   |
| <b>Description:</b>      | Polyphosphate Kinase purified circa 10 fold. Free of all Polyphosphate Glucokinase activity.<br><b>Specific Activity:</b> 1-3 U/mg 1.12 U/mg<br><b>Molecular weight:</b> 83 kDa 83 kD (monomer)  |
| <b>Add. Information:</b> | The reaction requires Mg <sup>2+</sup>   |
| <b>Storage:</b>          | Lyophilized product although stable at room temperature for 3 weeks, should be stored desiccated below -18 °C. Upon reconstitution it should be stored at 2 - 8 °C between 2 - 7 days and for future use below -18 °C. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA).<br>Please avoid freeze-thaw cycles.<br>Shelf life: One year from despatch. |