



## Product Datasheet

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| <b>Product Name</b> | Polyphosphate Kinase Recombinant   |
| <b>Cata No</b>      | CB500445   |
| <b>Source</b>       | <i>Propionibacterium shermanii</i>   |
| <b>Synonyms</b>     | Polyphosphate kinase, EC 2.7.4.1, Polyphosphoric acid kinase, ATP-polyphosphate phosphotransferase |

### Description

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.

Polyphosphate Kinase purified circa 10 fold . Free of all Polyphosphate Glucokinase activity.

Native MW = 83 kD (monomer)

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation

The protein was lyophilized from PPK solution containing 11.54 U/ml of PPK activity, 10.3 mg/ml total protein, 100mM potassium phosphate pH 6.8 and 25mM sodium polyphosphate.

### Stability

Lyophilized Polyphosphate kinase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PPK should be stored at 4°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).

**Please prevent freeze-thaw cycles.**