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Polyphospate Kinase - Purified

Catalog No.: AR10718PU-N

Quantity: 0.1 kIU

Background: 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.

Source: Propionibacterium shermanii

Format: **State:** Sterile filtered white lyophilized (freeze-dried) powder.
Buffer System: 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.
Reconstitution: Restore in 1-10 ml deionized water

Description: Polyphosphate Kinase purified circa 10 fold .
Free of all Polyphosphate Glucokinase activity.
Native Molecular Weight = 83 kD (monomer).
Biological Activity: The reaction requires Mg^{2+}.
The amount of Polyphosphate kinase required to convert 1µmole ADP to ATP per minute at pH 7.5, using Polyphosphate as phosphate donor.
Specific Activity: 1.12 U/mg

Storage: Lyophilized PPK although stable at RT for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PPK 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).
Please avoid freeze-thaw cycles.
Shelf life: One year from despatch.