

Polyphosphate Kinase (AsPPK2)

Product Information

Cat#	DIA-803
Descriptions	Polyphosphate kinase (AsPPK2) belongs to the PPK2 family that catalyzes the synthesis of nucleoside triphosphates from nucleoside diphosphates using polyphosphate as phosphate donor, serves as an efficient tool for ATP and GTP regeneration, and reduces the cost of industrial enzymatic reactions.
Applications	Polyphosphate kinase (AsPPK2) serves as an efficient biocatalyst for ATP regeneration systems in biochemical detection kits and enzymatic reaction cost optimization reagent development.
CAS No.	27-4-14
Enzyme Commission Number	EC 2.7.4.1
Enzyme Source	E.coli recombinant As PPK from Acidibacillus sul fur oxidans.
Reaction	$[\text{phosphate}] (n) + \text{ATP} = [\text{phosphate}] (n+1) + \text{ADP}$
Activity Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of ADP and $[\text{phosphate}] (n+1)$ from ATP and $[\text{phosphate}] (n)$ at 37°C.