

Acetate Kinase (ACK)

Product Information

Cat#	DIA-591
Descriptions	Acetate kinase widely exists in prokaryotic organisms and catalyzes reversible conversion between acetate and acetyl phosphate. It adjusts intracellular energy circulation and short-chain fatty acid metabolism, and is extensively adopted in synthetic biology design and microbial fermentation process optimization.
Applications	Acetate kinase (ACK) is widely used in ATP regeneration system construction for biochemical detection kits and metabolic assay reagent development.
CAS No.	127-2-10
Enzyme Commission Number	EC 2.7.2.1
Enzyme Source	E.coli recombinant acetate kinase from E.coli.
Reaction	ATP + Acetic acid = ADP + Acetyl phosphate
Activity Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μ mol ATP from ADP and acetyl phosphate per minute at 37°C.