We offer various packaging (protein concentration,activity,etc.) if necessary.

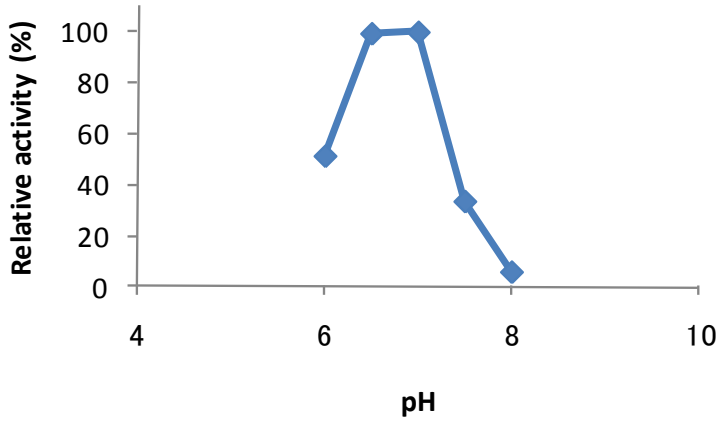
Data sheet

Enzyme	;	**Acetate kinase**
Code	;	ACK-75-01
Lot #	;	1-I101
Protein conc.	;	mg/ml
Volume	;	ml
Form	;	20 mM Tris-HCl (pH 8.0)
Storage	;	-20°C
Activity	;	U/ml (@50 °C, pH 7.0)
Notes	;	For research use only.

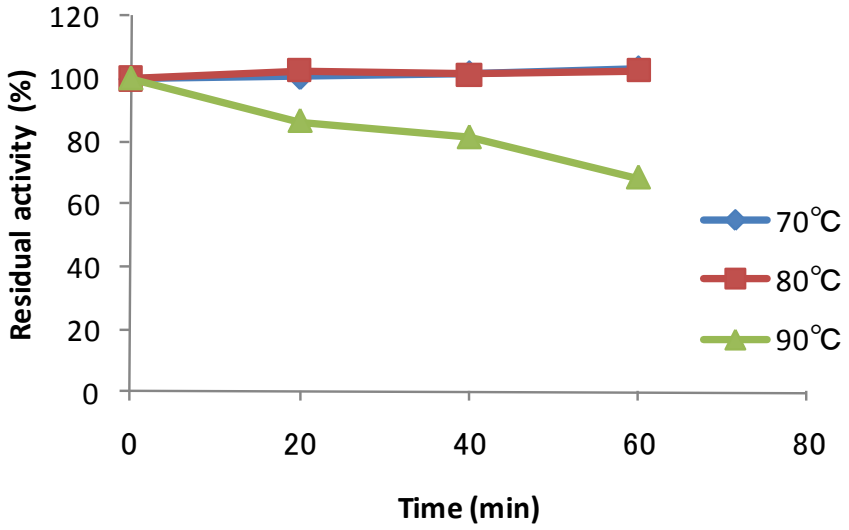
Activity measurement

Reaction mix (50 mM PIPES-KOH (pH 7.0), 0.85 U/ml Phosphoglycerate kinase, 0.2 U/ml Glyceraldehyde 3-phosphate dehydrogenase, 0.3 mM NADH, 10 mM $MgCl_2$, 1 mM ADP, 1 mM 3-Phosphoglycerate, 5 mM Acetyl phosphate and appropriate amount of the enzyme) was incubated at 50 °C and A_{340} was monitored. One unit is defined as the amount of the enzyme producing 1 μmol of ATP (using ε_{340}=6.22 mM^{-1} cm^{-1} for NADH) per 1 minute using Acetyl phosphate as a substrate.

◆ pH profile



◆ Thermostability



◆ Kinetic parameters

K_m for Acetylphosphate = 1.6 mM (@50 °C, pH 7.0)

K_m for ADP = 0.3 mM (@50 °C, pH 7.0)