

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

Data sheet

Enzyme	; NAD synthetase
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Code ; NAS-03-01

Lot No. ;

Protein conc. ; mg/ml

Volume ; ml

Form ; 20 mM Tris-HCl (pH 7.5), 50 mM NaCl

Storage ; -20 °C *Avoid repeated freeze and thaw cycles.

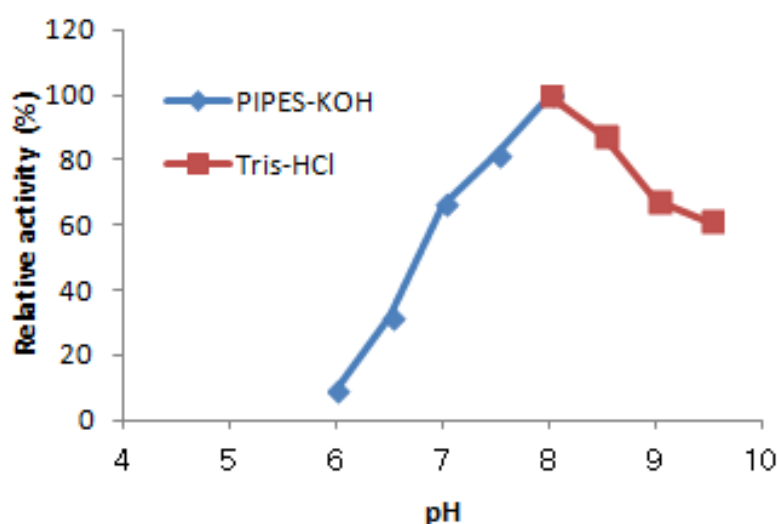
Activity ; U/ml

Notes ; For research use only

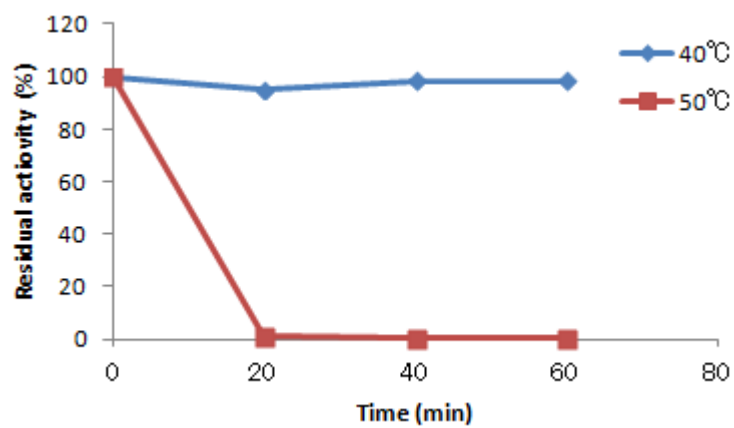
Activity measurement

Reaction mix (50 mM Tris-HCl (pH 8.0), 1 mM Deamido-NAD⁺, 5 mM Malate, 5 mM NH₄Cl, 5 mM MgCl₂, 0.5 U/ml Malate dehydrogenase, 0.5 mM ATP and appropriate amount of the enzyme) was incubated at 37 °C and A₃₄₀ was monitored. One unit is defined as the amount of the enzyme producing 1 μmol of NADH ($\epsilon_{340}=6.22 \text{ mM}^{-1} \text{ cm}^{-1}$) per 1 minute using Deamido-NAD⁺ as a substrate.

pH profile

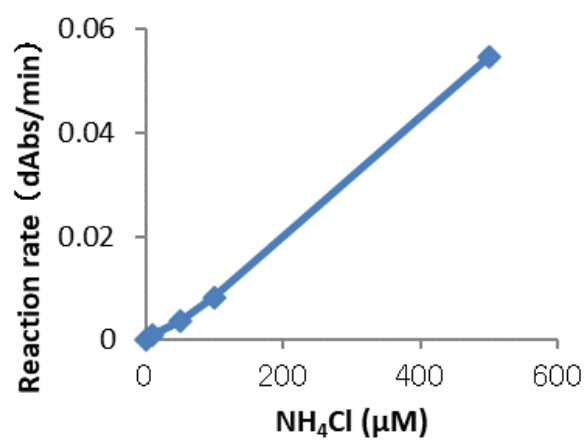


Thermostability



Effect of NH₃

(50 mM MOPS buffer (pH 7.0), 30°C)



$K_m = 286 \mu\text{M}$ (MOPS pH 7.0, 30 °C)