



β -N-ACETYLHEXOSAMINIDASE (Prokaryote) (Lot 150101b)

Recombinant

E-BNAHP

03/19

(EC 3.2.1.52) β -N-acetyl-D-hexosaminide; N-acetylhexosaminohydrolase

CAZy Family: GH20

CAS: 9012-33-3

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 52,000)
- One major band on isoelectric focusing (pI ~ 6.3)

2. SPECIFIC ACTIVITY:

260 U/mg protein (on pNP- β -D-N-acetylglucosamine) at pH 4.0 and 40°C;
~ 723 U/mg protein (on pNP- β -D-N-acetylglucosamine) at pH 4.0 and 60°C.

One Unit of β -N-acetyl-D-hexosaminidase activity is defined as the amount of enzyme required to release one μ mole of *p*-nitrophenol per minute from pNP- β -D-N-acetylglucosamine (1 mM) in citrate-phosphate buffer (100 mM) pH 4.0 at the temperatures indicated, monitored at 400 nm.

3. SPECIFICITY:

Hydrolysis of terminal non-reducing N-acetyl-D-hexosamine residues in N-acetyl- β -D-hexosaminides from glycoproteins and oligosaccharides.

4. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 3.0-5.0 and up to 60°C

pH Optima: 4.0

pH Stability: 3.0-9.0 (> 75% control activity after 24 hours at 4°C)

Temperature Optima: 60°C (10 min. reaction)

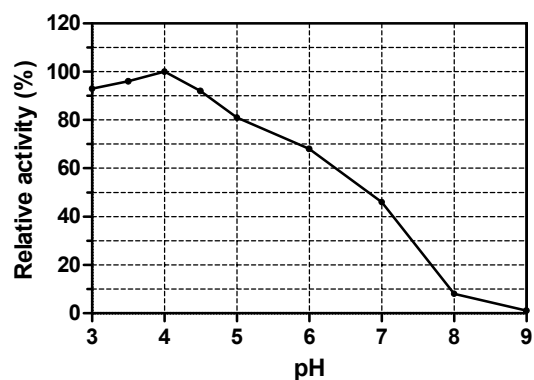
Temperature Stability: up to 50°C

5. STORAGE CONDITIONS:

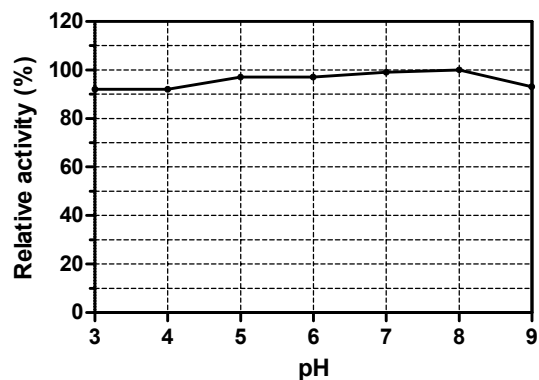
The enzyme is supplied as an ammonium sulphate suspension in 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in citrate-phosphate buffer (100 mM), pH 4.0 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**

6. EXPERIMENTAL DATA:

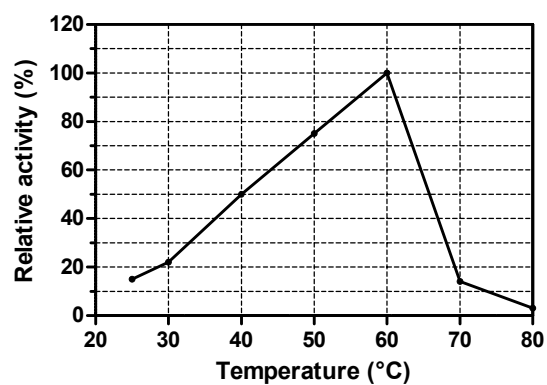
pH Optima



pH Stability



Thermal Optima



Thermal Stability

