

N-acetylglucosamine 6-phosphate deacetylase from *Bacillus subtilis*, Recombinant

Cat. No. NATE-1541

Lot. No. (See product label)

Introduction

Description In enzymology, a N-acetylglucosamine-6-phosphate deacetylase (EC 3.5.1.25) is an enzyme that catalyzes the chemical reaction: N-acetyl-D-glucosamine 6-phosphate + H₂O → D-glucosamine 6-phosphate + acetate. Thus, the two substrates of this enzyme are N-acetyl-D-glucosamine 6-phosphate and H₂O, whereas its two products are D-glucosamine 6-phosphate and acetate.

Synonyms N-acetyl-D-glucosamine-6-phosphate amidohydrolase; acetylglucosamine phosphate deacetylase; acetylaminodeoxyglucosephosphate acetylhydrolase; 2-acetamido-2-deoxy-D-glucose-6-phosphate amidohydrolase; EC 3.5.1.25

Product Information

Species	Bacillus subtilis
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl ₂ , 0.02% sodium azide and 25% (v/v) glycerol
EC Number	EC 3.5.1.25
CAS No.	9027-50-3
Molecular Weight	44.6 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	8
Optimum temperature	37 °C
Specificity	N-acetyl group of GlcNAc-6-P to yield glucosamine 6-phosphate and acetate

Storage and Shipping Information

Storage This enzyme is shipped at room temperature but should be stored at -20 °C.