

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 CaCl₂, 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.