Creative Enzymes®

Peptidoglycan N-acetylglucosamine deacetylase from Streptococcus pneumoniae, Recombinant

Cat. No. NATE-1539

Lot. No. (See product label)

Introduction

Description	Peptidoglycan-N-acetylglucosamine deacetylase (EC 3.5.1.104, HP310, PgdA, SpPgdA, BC1960, peptidoglycan deacetylase, N-acetylglucosamine deacetylase, peptidoglycan GlcNAc deacetylase, peptidoglycan N-acetylglucosamine deacetylase, PG N-deacetylase) is an enzyme with systematic name peptidoglycan-N-acetylglucosamine amidohydrolase. This enzyme catalyses the following chemical reaction: peptidoglycan-N-acetyl-D-glucosamine + H2O → peptidoglycan-D-glucosamine + acetate. This enzyme contributes to virulence of Helicobacter pylori, Listeria monocytogenes and Streptococcus suis.
Synonyms	Peptidoglycan-N-acetylglucosamine deacetylase; EC 3.5.1.-; HP310; PgdA; SpPgdA; BC1960; peptidoglycan deacetylase; N-acetylglucosamine deacetylase; peptidoglycan GlcNAc deacetylase; peptidoglycan N-acetylglucosamine deacetylase; PG N-deacetylase

Product Information

Species	Streptococcus pneumoniae
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.-
Molecular Weight	24.2 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	7
Optimum temperature	37 °C
Specificity	Peptidoglycan

Storage and Shipping Information

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