Creative Enzymes®

N-acetylhexosamine 1-kinase from Bifidobacterium longum, Recombinant

Cat. No. NATE-1481

Lot. No. (See product label)

Introduction

Description	N-acetylhexosamine 1-kinase (EC 2.7.1.162, NahK, LnpB, N-acetylgalactosamine/N-acetylglucosamine 1-kinase) is an enzyme with systematic name ATP:N-acetyl-D-hexosamine 1-phosphotransferase. This enzyme catalyses the following chemical reaction: ATP + N-acetyl-D-hexosamine → ADP + N-acetyl-alpha-D-hexosamine 1-phosphate. This enzyme is involved in the lacto-N-biose I/galacto-N-biose degradation pathway in the probiotic bacterium Bifidobacterium longum.
Synonyms	EC 2.7.1.162; NahK; LnpB; N-acetylgalactosamine/N-acetylglucosamine 1-kinase; ATP:N-acetyl-D-hexosamine 1-phosphotransferase

Product Information

Species	Bifidobacterium longum
Source	E. coli
EC Number	EC 2.7.1.162
Molecular Weight	40 kDa
Purity	min 95% by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of GlcNAc-1-P from GlcNAc and ATP per minute at 37 °C.