Creative Enzymes®

UDP-N,N'-diacetylbacillosamine 2-epimerase (hydrolysing)

Cat. No. EXWM-3868

Lot. No. (See product label)

Introduction

Description	Requires Mg2+. Involved in biosynthesis of legionaminic acid, a nonulosonate derivative that is incorporated by some bacteria into assorted virulence-associated cell surface glycoconjugates. The initial product formed by the enzyme from Legionella pneumophila, which incorporates legionaminic acid into the O-antigen moiety of its lipopolysaccharide, is 2,4-diacetamido-2,4,6-trideoxy-α-D-mannopyranose, which rapidly mutarotates to a mixture of anomers. The enzyme from Campylobacter jejuni, which incorporates legionaminic acid into flagellin, prefers GDP-N,N'-diacetylbacillosamine.
Synonyms	UDP-Bac2Ac4Ac 2-epimerase; NeuC

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.2.1.184
Reaction	UDP-N,N'-diacetylbacillosamine + H2O = UDP + 2,4-diacetamido-2,4,6-trideoxy-D-mannopyranose
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.