

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

Cat. No. EXWM-3868

Lot. No. (See product label)

### Introduction

**Description** Requires Mg<sup>2+</sup>. 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- $\alpha$ -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 + H<sub>2</sub>O = 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.