

## 2-deoxystreptamine N-acetyl-D-glucosaminyltransferase

Cat. No. EXWM-2516

Lot. No. (See product label)

### Introduction

**Description** Involved in the biosynthetic pathways of several clinically important aminocyclitol antibiotics, including kanamycin, butirosin, neomycin and ribostamycin. Unlike the enzyme from the bacterium *Streptomyces kanamyceticus*, which can also accept UDP-D-glucose (cf. EC 2.4.1.284, 2-deoxystreptamine glucosyltransferase), the enzyme from *Bacillus circulans* can only accept UDP-N-acetyl- $\alpha$ -D-glucosamine.

**Synonyms** btrM (gene name); neoD (gene name); kanF (gene name)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.4.1.283

**Reaction** UDP-N-acetyl- $\alpha$ -D-glucosamine + 2-deoxystreptamine = UDP + 2'-N-acetylparomamine

**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.