Creative Enzymes®

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-α-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-α-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.