Creative Enzymes®

2-deoxy-scyllo-inosose synthase

Cat. No. EXWM-5137

Lot. No. (See product label)

Introduction

Description	Requires Co2+. Involved in the biosynthetic pathways of several clinically important aminocyclitol antibiotics, including kanamycin, butirosin, neomycin and ribostamycin. Requires an NAD+ cofactor, which is transiently reduced during the reaction. The enzyme from the bacterium Bacillus circulans forms a complex with the glutamine amidotransferase subunit of pyridoxal 5'-phosphate synthase (EC 4.3.3.6), which appears to stabilize the complex.
Synonyms	btrC (gene name); neoC (gene name); kanC (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.3.124
Reaction	D-glucose 6-phosphate = 2-deoxy-L-scyllo-inosose + phosphate
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 ℃.