

## 2-deoxy-scylo-inosose synthase

Cat. No. EXWM-5137

Lot. No. (See product label)

### Introduction

#### Description

Requires Co<sup>2+</sup>. Involved in the biosynthetic pathways of several clinically important aminocyclitol antibiotics, including kanamycin, butirosin, neomycin and ribostamycin. Requires an NAD<sup>+</sup> 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-scylo-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 °C for short term. For long term storage, store it at -20 °C~-80 °C.