

dTDP-4-dehydro-2,6-dideoxy-D-glucose 3-dehydratase

Cat. No. EXWM-5005

Lot. No. (See product label)

Introduction

Description

A pyridoxal 5'-phosphate protein. The enzyme, isolated from the bacterium *Saccharopolyspora spinosa*, participates in the biosynthesis of forosamine. Requires ferredoxin/ferredoxin reductase or flavodoxin/flavodoxin reductase.

Synonyms

SpnQ; TDP-4-keto-2,6-dideoxy-D-glucose 3-dehydrase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.1.164

Reaction

dTDP-4-dehydro-2,6-dideoxy- α -D-glucose + 2 reduced ferredoxin [iron-sulfur] cluster + 2 H⁺ = dTDP-4-dehydro-2,3,6-trideoxy- α -D-hexopyranose + H₂O + 2 oxidized ferredoxin [iron-sulfur] cluster

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.