Creative Enzymes®

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