

dTDP-4-amino-2,3,4,6-tetradeoxy-D-glucose N,N-dimethyltransferase

Cat. No. EXWM-1932

Lot. No. (See product label)

Introduction

Description

The enzyme was isolated from the bacterium *Saccharopolyspora spinosa*, where it is involved in the biosynthesis of spinosyn A, an active ingredient of several commercial insecticides.

Synonyms

SpnS; TDP-4-amino-2,3,6-trideoxy-D-glucose N,N-dimethyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.324

Reaction

2 S-adenosyl-L-methionine + dTDP-4-amino-2,3,4,6-tetradeoxy- α -D-erythro-hexopyranose = 2 S-adenosyl-L-homocysteine + dTDP- α -D-forosamine (overall reaction); (1a) S-adenosyl-L-methionine + dTDP-4-amino-2,3,4,6-tetradeoxy- α -D-erythro-hexopyranose = S-adenosyl-L-homocysteine + dTDP-4-(methylamino)-2,3,4,6-tetradeoxy- α -D-erythro-hexopyranose; (1b) 2 S-adenosyl-L-methionine + dTDP-4-(methylamino)-2,3,4,6-tetradeoxy- α -D-erythro-hexopyranose = 2 S-adenosyl-L-homocysteine + dTDP- α -D-forosamine

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.