Creative Enzymes®

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