Creative Enzymes®

L-evernosamine nitrososynthase

Cat. No. EXWM-0786

Lot. No. (See product label)

Introduction

Description	Requires FAD. Isolated from the bacterium Micromonospora carbonacea var. africana. The nitroso group is probably spontaneously oxidized to a nitro group giving dTDP-β-L-evernitrose, which is involved in the biosynthesis of the antibiotic everninomycin. The reaction was studied using dTDP-β-L-4-epi-vancosamine (dTDP-4-O-desmethyl-β-L-evernitrosamine).

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.187
Reaction	dTDP-β-L-evernosamine + 2 NADPH + 2 H+ + 2 O2 = dTDP-2,3,6-trideoxy-3-C-methyl-4-O-methyl-3-nitroso-β-L-arabino-hexopyranose + 2 NADP+ + 3 H2O (overall reaction); (1a) dTDP-β-L-evernosamine + NADPH + H+ + O2 = dTDP-N-hydroxy-β-L-evernosamine + NADP+ + H2O; (1b) dTDP-N-hydroxy-β-L-evernosamine + NADPH + H+ + O2 = dTDP-2,3,6-trideoxy-3-C-methyl-4-O-methyl-3-nitroso-β-L-arabino-hexopyranose + NADP+ + 2 H2O
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 ℃.