

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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