

4-(γ-L-glutamylamino)butanoyl-[Btrl acyl-carrier protein] monooxygenase

Cat. No. EXWM-0910

Lot. No. (See product label)

Introduction

Description Catalyses a step in the biosynthesis of the side chain of the aminoglycoside

antibiotics of the butirosin family. FMNH2 is used as a free cofactor. Forms a complex with a dedicated NAD(P)H:FMN oxidoreductase. The enzyme is not able to

hydroxylate free substrates, activation by the acyl-carrier protein is mandatory.Octanoyl-S-[Btrl acyl-carrier protein] is also accepted.

Synonyms btrO (gene name)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.14.13

Reaction 4-(γ -L-glutamylamino)butanoyl-[Btrl acyl-carrier protein] + FMNH2 + O2 = 4-(γ -L-

glutamylamino)-(2S)-2-hydroxybutanoyl-[Btrl acyl-carrier protein] + FMN + H2O

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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 \sim -80 °C.

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