

[butirosin acyl-carrier protein]-L-glutamate ligase

Cat. No. EXWM-5697

Lot. No. (See product label)

Introduction

Description Catalyses two steps in the biosynthesis of the side chain of the aminoglycoside antibiotics of the butirosin

family. The enzyme adds one molecule of L-glutamate to a dedicated acyl-carrier protein, and following decarboxylation of the product by EC 4.1.1.95, L-glutamyl-[Btrl acyl-carrier protein] decarboxylase, adds a second L-glutamate molecule. Requires Mg2+ or Mn2+, and activity is enhanced in the presence of Mn2+.

Synonyms [Btrl acyl-carrier protein]-L-glutamate ligase; BtrJ

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.2.1.39

Reaction (1) ATP + L-glutamate + Btrl acyl-carrier protein = ADP + phosphate + L-glutamyl-[Btrl acyl-carrier

protein]; (2) ATP + L-glutamate + 4-amino butanoyl-[Btrl acyl-carrier protein] = ADP + phosphate + 4-(γ-

L-glutamylamino)butanoyl-[Btrl acyl-carrier protein]

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.

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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