

## [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; Btrl

## **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 +  $4-(\gamma-L-glutamylamino)$ butanoyl-[Btrl acyl-

1/1

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.

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