Creative Enzymes®

[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-[BtrI acyl-carrier protein] decarboxylase, adds a second L-glutamate molecule.Requires Mg2+ or Mn2+, and activity is enhanced in the presence of Mn2+.
Synonyms	[BtrI 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 + BtrI acyl-carrier protein = ADP + phosphate + L-glutamyl-[BtrI acyl-carrier protein]; (2) ATP + L-glutamate + 4-amino butanoyl-[BtrI acyl-carrier protein] = ADP + phosphate + 4-(γ-L-glutamylamino)butanoyl-[BtrI 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

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