

L-allo-isoleucine:holo-[CmaA peptidyl-carrier protein] ligase

Cat. No. EXWM-5705

Lot. No. (See product label)

Introduction

Description This two-domain protein from the bacterium *Pseudomonas syringae* contains an adenylation domain (A domain) and a thiolation domain (T domain). It catalyses the adenylation of L-allo-isoleucine and its attachment to the T domain. The enzyme is involved in the biosynthesis of the toxin coronatine, which mimics the plant hormone jasmonic acid isoleucine. Coronatine promotes opening of the plant stomata allowing bacterial invasion, which is followed by bacterial growth in the apoplast, systemic susceptibility, and disease.

Synonyms CmaA

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.2.1.46

Reaction $\text{ATP} + \text{L-allo-isoleucine} + \text{holo-[CmaA peptidyl-carrier protein]} = \text{AMP} + \text{diphosphate} + \text{L-allo-isoleucyl-S-[CmaA peptidyl-carrier protein]}$

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