

## malonyl-S-ACP:biotin-protein carboxyltransferase

Cat. No. EXWM-2012

Lot. No. (See product label)

### Introduction

**Description** Derived from the components MadC and MadD of the anaerobic bacterium Malonomonas rubra, this enzyme is a component of EC 4.1.1.89, biotin-dependent malonate decarboxylase. The carboxy group is transferred from malonate to the prosthetic group of the biotin protein (MadF) with retention of configuration. Similar to EC 4.1.1.87, malonyl-S-ACP decarboxylase, which forms part of the biotin-independent malonate decarboxylase (EC 4.1.1.88), this enzyme also follows on from EC 2.3.1.187, acetyl-S-ACP:malonate ACP transferase, and results in the regeneration of the acetyl-[acyl-carrier protein].

**Synonyms** malonyl-S-acyl-carrier protein:biotin-protein carboxyltransferase; MadC/MadD; MadC,D; malonyl-[acyl-carrier protein]:biotinyl-[protein] carboxyltransferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.1.3.10

**Reaction** a malonyl-[acyl-carrier protein] + a biotinyl-[protein] = an acetyl-[acyl-carrier protein] + a carboxybiotinyl-[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.