

## acetyl-S-ACP:malonate ACP transferase

Cat. No. EXWM-2129

Lot. No. (See product label)

### Introduction

**Description** This is the first step in the catalysis of malonate decarboxylation and involves the exchange of an acetyl thioester residue bound to the activated acyl-carrier protein (ACP) subunit of the malonate decarboxylase complex for a malonyl thioester residue. This enzyme forms the  $\alpha$  subunit of the multienzyme complexes biotin-independent malonate decarboxylase (EC 4.1.1.88) and biotin-dependent malonate decarboxylase (EC 4.1.1.89). The enzyme can also use acetyl-CoA as a substrate but more slowly.

**Synonyms** acetyl-S-ACP:malonate ACP-SH transferase; acetyl-S-acyl-carrier protein:malonate acyl-carrier-protein-transferase; MdcA; MadA; ACP transferase; malonate/acetyl-CoA transferase; malonate:ACP transferase; acetyl-S-acyl carrier protein:malonate acyl carrier protein-SH transferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.3.1.187

**Reaction** an acetyl-[acyl-carrier protein] + malonate = a malonyl-[acyl-carrier protein] + acetate

**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.