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 α 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.