Creative Enzymes®

malonate decarboxylase holo-[acyl-carrier protein] synthase

Cat. No. EXWM-3277

Lot. No. (See product label)

Introduction

Description

The Δ subunit of malonate decarboxylase serves as an an acyl-carrier protein (ACP) and contains the prosthetic group 2-(5-triphosphoribosyl)-3-dephospho-CoA. Two reactions are involved in the production of the holo-ACP form of this enzyme. The first reaction is catalysed by EC 2.4.2.52, triphosphoribosyl-dephospho-CoA synthase. The resulting prosthetic group is then attached to the ACP subunit via a phosphodiester linkage to a serine residue, thus forming the holo form of the enzyme, in a manner analogous to that of EC 2.7.7.61, citrate lyase holo-[acyl-carrier protein] synthase.

Synonyms

holo ACP synthase (ambiguous); 2'-(5''-triphosphoribosyl)-3'-dephospho-CoA:apo ACP 2'-(5''-triphosphoribosyl)-3'-dephospho-CoA transferase; MdcG; 2'-(5''-triphosphoribosyl)-3'-dephospho-CoA:apo-malonate-decarboxylase adenylyltransferase; holo-malonate-decarboxylase synthase (incorrect)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.7.66

Reaction

2'-(5-triphosphoribosyl)-3'-dephospho-CoA + malonate decarboxylase apo-[acyl-carrier protein] = malonate decarboxylase holo-[acyl-carrier protein] + diphosphate

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 ℃.