Creative Enzymes®

demethylmenaquinone methyltransferase

Cat. No. EXWM-1760

Lot. No. (See product label)

Introduction

Description	The enzyme catalyses the last step in menaquinone biosynthesis. It is able to accept substrates with varying polyprenyl side chain length (the chain length is determined by polyprenyl diphosphate synthase). The enzyme from Escherichia coli also catalyses the conversion of 2-methoxy-6-octaprenyl-1,4-benzoquinone to 5-methoxy-2-methyl-3-octaprenyl-1,4-benzoquinone during the biosynthesis of ubiquinone. The enzyme probably acts on menaquinol rather than menaquinone.
Synonyms	S-adenosyl-L-methione-DMK methyltransferase; demethylmenaquinone C-methylase; 2-heptaprenyl-1,4-naphthoquinone methyltransferase; 2-demethylmenaquinone methyltransferase; S-adenosyl-L-methione:2-demethylmenaquinone methyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.1.1.163
Reaction	a demethylmenaquinol + S-adenosyl-L-methionine = a menaquinol + S-adenosyl-L-homocysteine
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 ℃.