Creative Enzymes®

2-methoxy-6-polyprenyl-1,4-benzoquinol methylase

Cat. No. EXWM-1802

Lot. No. (See product label)

Introduction

Description	This enzyme is involved in ubiquinone biosynthesis. Ubiquinones from different organisms have a different number of prenyl units (for example, ubiquinone-6 in Saccharomyces, ubiquinone-9 in rat and ubiquinone-10 in human), and thus the natural substrate for the enzymes from different organisms has a different number of prenyl units. However, the enzyme usually shows a low degree of specificity regarding the number of prenyl units. For example, when the COQ5 gene from Saccharomyces cerevisiae is introduced into Escherichia coli, it complements the respiratory deficiency of an ubiE mutant. The bifunctional enzyme from Escherichia coli also catalyses the methylation of demethylmenaquinol-8 (this activity is classified as EC 2.1.1.163).
Synonyms	ubiE (gene name, ambiguous)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.1.1.201
Reaction	S-adenosyl-L-methionine + 2-methoxy-6-all-trans-polyprenyl-1,4-benzoquinol = S-adenosyl-L-homocysteine + 6-methoxy-3-methyl-2-all-trans-polyprenyl-1,4-benzoquinol
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 ℃.