

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.