(+)-menthofuran synthase

Cat. No. EXWM-0703

Lot. No. (See product label)

Introduction

Description	A heme-thiolate protein (P-450). The conversion of substrate into product involves the hydroxylation of the syn-methyl (C9), intramolecular cyclization to the hemiketal and dehydration to the furan. This is the second cytochrome P-450-mediated step of monoterpene metabolism in peppermint, with the other step being catalysed by EC 1.14.13.47, (S)-limonene 3-monooxygenase.
Synonyms	menthofuran synthase; (+)-pulegone 9-hydroxylase; (+)-MFS; cytochrome P450 menthofuran synthase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.104
Reaction	(+)-pulegone + NADPH + H+ + O2 = (+)-menthofuran + NADP+ + H2O
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 ℃.