Creative Enzymes®

limonene 1,2-monooxygenase

Cat. No. EXWM-0706

Lot. No. (See product label)

Introduction

Description	A flavoprotein (FAD). Limonene is the most widespread terpene and is formed by more than 300 plants. Rhodococcus erythropolis DCL14, a Gram-positive bacterium, is able to grow on both (S)-limonene and (R)-limonene as the sole source of carbon and energy. NADPH can act instead of NADH, although more slowly. It has not been established if the product formed is optically pure or a mixture of two enantiomers.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.107
Reaction	(1) (S)-limonene + NAD(P)H + H+ + O2 = 1,2-epoxymenth-8-ene + NAD(P)+ + H2O; (2) (R)-limonene + NAD(P)H + H+ + O2 = 1,2-epoxymenth-8-ene + NAD(P)+ + 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 ℃.