Creative Enzymes®

# methyl-branched lipid ω-hydroxylase

*Cat. No. EXWM-0939*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | The enzyme, found in pathogenic and nonpathogenic mycobacteria species, actinomycetes, and some proteobacteria, hydroxylates the ω-carbon of a number of methyl-branched lipids, including (2E,6E)-farnesol, phytanate, geranylgeraniol, 15-methylpalmitate and (2E,6E)-farnesyl diphosphate. It is a P-450 heme-thiolate enzyme. |
| ***Synonyms*** | CYP124 |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 1.14.15.14 |
| ***Reaction*** | a methyl-branched lipid + O2 + 2 reduced ferredoxin [iron-sulfur] cluster + 2 H+ = an ω-hydroxy-methyl-branched lipid + H2O + 2 oxidized ferredoxin [iron-sulfur] cluster |
| ***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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |