

## unspecific monooxygenase

Cat. No. EXWM-0906

Lot. No. (See product label)

## Introduction

**Description** A group of P-450 heme-thiolate proteins, acting on a wide range of substrates

including many xenobiotics, steroids, fatty acids, vitamins and prostaglandins; reactions catalysed include hydroxylation, epoxidation, N-oxidation, sulfooxidation, N-, S- and O-dealkylations, desulfation, deamination, and reduction of azo, nitro and N-oxide groups. Together with EC 1.6.2.4, NADPH-hemoprotein reductase, it forms a system in which two reducing equivalents are supplied by NADPH. Some of the reactions attributed to EC 1.14.15.3, alkane 1-monooxygenase, belong here.

**Synonyms** microsomal monooxygenase; xenobiotic monooxygenase; aryl-4-monooxygenase;

aryl hydrocarbon hydroxylase; microsomal P-450; flavoprotein-linked monooxygenase; flavoprotein monooxygenase; substrate,reduced-flavoprotein:oxygen oxidoreductase (RH-hydroxylating or -epoxidizing)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.14.1

**CAS No.** 9038-14-6

Reaction RH + [reduced NADPH-hemoprotein reductase] + O2 = ROH + [oxidized NADPH-

hemoprotein reductase] + 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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