

## heme oxygenase (biliverdin-producing)

Cat. No. EXWM-0915

Lot. No. (See product label)

## Introduction

**Description** This mammalian enzyme participates in the degradation of heme. The terminal

oxygen atoms that are incorporated into the carbonyl groups of pyrrole rings A and B of biliverdin are derived from two separate oxygen molecules. The third oxygen molecule provides the oxygen atom that converts the  $\alpha$ -carbon to CO. The enzyme

requires NAD(P)H and EC 1.6.2.4, NADPH-hemoprotein reductase. cf. EC

1.14.15.20, heme oxygenase (biliverdin-producing, ferredoxin).

**Synonyms** ORP33 proteins; haem oxygenase (ambiguous); heme oxygenase (decyclizing)

(ambiguous); heme oxidase (ambiguous); haem oxidase (ambiguous); heme oxygenase (ambiguous); heme,hydrogen-donor:oxygen oxidoreductase ( $\alpha$ -

methene-oxidizing, hydroxylating)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.14.18

*CAS No.* 9059-22-7

**Reaction** protoheme + 3 [reduced NADPH-hemoprotein reductase] + 3 O2 = biliverdin +

Fe2+ + CO + 3 [oxidized NADPH-hemoprotein reductase] + 3 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 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1