

## long-chain fatty acid ω-monooxygenase

Cat. No. EXWM-0807

Lot. No. (See product label)

## Introduction

**Description** The plant enzyme CYP704B1, which is involved in the synthesis of sporopollenin, a

complex polymer found at the outer layer of spores and pollen, acts on palmitate (18:0), stearate (18:0) and oleate (18:1). The plant enzyme CYP86A1 also acts on laurate (12:0). The enzyme from the yeast Starmerella bombicola (CYP52M1) acts on C16 to C20 saturated and unsaturated fatty acids and can also hydroxylate the ( $\omega$ -1) position. The mammalian enzyme CYP4A acts on laurate (12:0), myristate

(14:0), palmitate (16:0), oleate (18:1), and arachidonate (20:4).

Synonyms CYP704B1 (gene name); CYP52M1 (gene name); CYP4A (gene name); CYP86A

(gene name)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.205

**Reaction** a long-chain fatty acid + NADPH + H+ + O2 = an  $\omega$ -hydroxy-long-chain fatty acid +

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

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

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1/1