Creative Enzymes®

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 (ω-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 ω-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

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