

fatty-acid peroxygenase

Cat. No. EXWM-0515

Lot. No. (See product label)

Introduction

Description A cytosolic heme-thiolate protein with sequence homology to P-450 monooxygenases. Unlike the latter, it

needs neither NAD(P)H, dioxygen nor specific reductases for function. Enzymes of this type are produced by bacteria (e.g. Sphingomonas paucimobilis, Bacillus subtilis). Catalytic turnover rates are high compared with those of monooxygenation reactions as well as peroxide shunt reactions catalysed by the common P-

450s. A model substrate is myristate, but other saturated and unsaturated fatty acids are also

hydroxylated. Oxidizes the peroxidase substrate 3,3',5,5'-tetramethylbenzidine (TMB) and peroxygenates

aromatic substrates in a fatty-acid-dependent reaction.

Synonyms fatty acid hydroxylase (ambiguous); P450 peroxygenase; CYP152A1; P450BS; P450SPα

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.11.2.4

Reaction fatty acid + H2O2 = 3- or 2-hydroxy fatty acid + 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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