

## 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. 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

Storage

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