Creative Enzymes®

colneleate synthase

Cat. No. EXWM-4962

Lot. No. (See product label)

Introduction

Description	A heme-thiolate protein (P-450). It catalyses the selective removal of pro-R hydrogen at C-8 in the biosynthesis of colneleic acid. It forms also (8E)-9-[(1E,3Z,6Z)-nona-1,3,6-trien-1-yloxy]non-8-enoic acid (i.e. colnelenate) from (9S,10E,12Z,15Z)-9-hydroperoxy-10,12,15-octadecatrienoate. The corresponding 13-hydroperoxides are poor substrates. The divinyl ethers colneleate and colnelenate have antimicrobial activity.
Synonyms	9-divinyl ether synthase; 9-DES; CYP74D; CYP74D1; CYP74 cytochrome P-450; DES1; (8E)-9-[(1E,3E)-nona-1,3-dien-1-yloxy]non-8-enoate synthase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.1.121
Reaction	(9S,10E,12Z)-9-hydroperoxyoctadeca-10,12-dienoate = (8E)-9-[(1E,3Z)-nona-1,3-dien-1-yloxy]non-8-enoate + 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 ℃.