

abieta-7,13-dien-18-ol hydroxylase

Cat. No. EXWM-0708 Lot. No. (See product label)

Storage

Introduction	
Description	A heme-thiolate protein (P-450). This enzyme catalyses a step in the pathway of abietic acid biosynthesis. The activity has been demonstrated in cell-free stem extracts of Abies grandis (grand fir) and Pinus contorta (lodgepole pine), and the gene encoding the enzyme has been identified in Pinus taeda (loblolly pine). The recombinant enzyme catalyses the oxidation of multiple diterpene alcohol and aldehydes, including levopimaradienol, isopimara-7,15-dienol, isopimara-7,15-dienal, dehydroabietadienol and dehydroabietadienal. It is not able to oxidize abietadiene.
Synonyms	CYP720B1; PtAO; abietadienol hydroxylase (ambiguous)
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.109
Reaction	abieta-7,13-dien-18-ol + NADPH + H+ + O2 = abieta-7,13-dien-18-al + NADP+ + 2 H2O (overall reaction); (1a) abieta-7,13-dien-18-ol + NADPH + H+ + O2 = abieta- 7,13-dien-18,18-diol + NADP+ + H2O; (1b) abieta-7,13-dien-18,18-diol = abieta- 7,13-dien-18-al + H2O (spontaneous)
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 \sim -80 °C.