

methylsterol monooxygenase

Cat. No. EXWM-0879 Lot. No. (See product label)

Introduction	
Description	Requires cytochrome b5. Also acts on 4α -methyl- 5α -cholest-7-en- 3β -ol. The sterol can be based on cycloartenol as well as lanosterol.
Synonyms	methylsterol hydroxylase; 4-methylsterol oxidase; 4,4-dimethyl-5 α -cholest-7-en-3 β -ol,hydrogen-donor:oxygen oxidoreductase (hydroxylating)
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.72
CAS No.	37256-80-7
Reaction	4,4-dimethyl-5 α -cholest-7-en-3 β -ol + 3 NAD(P)H + 3 H+ + 3 O2 = 3 β -hydroxy-4 β - methyl-5 α -cholest-7-ene-4 α -carboxylate + 3 NAD(P)+ + 4 H2O (overall reaction); (1a) 4,4-dimethyl-5 α -cholest-7-en-3 β -ol + NAD(P)H + H+ + O2 = 4 β - hydroxymethyl-4 α -methyl-5 α -cholest-7-en-3 β -ol + NAD(P)+ + H2O; (1b) 4 β - hydroxymethyl-4 α -methyl-5 α -cholest-7-en-3 β -ol + NAD(P)H + H+ + O2 = 3 β - hydroxy-4 β -methyl-5 α -cholest-7-ene-4 α -carbaldehyde + NAD(P)H + H+ + O2 = 3 β - hydroxy-4 β -methyl-5 α -cholest-7-ene-4 α -carbaldehyde + NAD(P)H + H+ + O2 = 3 β - hydroxy-4 β -methyl-5 α -cholest-7-ene-4 α -carbaldehyde + NAD(P)H + H+ + O2 = 3 β -
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.