

sterol 22-desaturase

Cat. No. EXWM-1006

Lot. No. (See product label)

Introduction

Description A heme-thiolate protein (P450). The enzyme, found in yeast and plants, catalyses

the introduction of a double bond between the C-22 and C-23 carbons of certain sterols. In yeast the enzyme acts on ergosta-5,7,24(28)-trien-3 β -ol, a step in the biosynthesis of ergosterol. The enzyme from the plant Arabidopsis thaliana acts on sitosterol and 24-epi-campesterol, producing stigmasterol and brassicasterol,

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respectively.

Synonyms ERG5 (gene name); CYP710A (gene name)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.19.41

Reaction ergosta-5,7,24(28)-trien-3 β -ol + NADPH + H+ + O2 = ergosta-5,7,22,24(28)-

tetraen-3- β -ol + NADP+ + 2 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 \sim -80 °C.

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