

Δ7-sterol 5(6)-desaturase

Cat. No. EXWM-0983

Lot. No. (See product label)

Introduction

Description

This enzyme, found in eukaryotic organisms, catalyses the introduction of a double bond between the C5 and C6 carbons of the B ring of Δ7-sterols, to yield the corresponding Δ5,7-sterols. The enzymes from yeast, plants and vertebrates act on avenasterol, episterol, and lathosterol, respectively. The enzyme is located at the endoplasmic reticulum and is membrane bound.

Synonyms

lathosterol oxidase; Δ7-sterol Δ5-dehydrogenase; Δ7-sterol 5-desaturase; Δ7-sterol-C5(6)-desaturase; 5-DES; SC5DL (gene name); ERG3 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.19.20

CAS No.

37255-37-1

Reaction

a Δ7-sterol + 2 ferrocytochrome b5 + O₂ + 2 H⁺ = a Δ5,7-sterol + 2 ferrocytochrome b5 + 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~-80 °C.