

acyl-CoA 5-desaturase

Cat. No. EXWM-1001

Lot. No. (See product label)

Introduction

Description The enzyme, characterized from the plant Anemone leveillei, introduces a cis

double bond at carbon 5 of acyl-CoAs that do not contain a double bond at position 8. In vivo it forms non-methylene-interrupted polyunsaturated fatty acids such as sciadonate and juniperonate. When expressed in Arabidopsis thaliana the enzyme could also act on unsaturated substrates such as palmitoyl-CoA. cf. EC 1.14.19.44,

acyl-CoA (8-3)-desaturase.

Synonyms acyl-CoA 5-desaturase (non-methylene-interrupted)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.19.37

Reaction (1) (11Z,14Z)-icosa-11,14-dienoyl-CoA + reduced acceptor + O2 = (5Z,11Z,14Z)-

icosa-5,11,14-trienoyl-CoA + acceptor + 2 H2O; (2) (11Z,14Z,17Z)-icosa-11,14,17-trienoyl-CoA + reduced acceptor + O2 = (5Z,11Z,14Z,17Z)-icosa-5,11,14,17-

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tetraenoyl-CoA + acceptor + 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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