

2-oxoglutarate dioxygenase (ethylene-forming)

Cat. No. EXWM-0611

Lot. No. (See product label)

Introduction

Description This is one of two simultaneous reactions catalysed by the enzyme, which is

responsible for ethylene production in bacteria of the Pseudomonas syringae

group. In the other reaction [EC 1.14.11.34, 2-oxoglutarate/L-arginine

monooxygenase/decarboxylase (succinate-forming)] the enzyme catalyses the mono-oxygenation of both 2-oxoglutarate and L-arginine, forming succinate, carbon dioxide and L-hydroxyarginine, which is subsequently cleaved into

guanidine and (S)-1-pyrroline-5-carboxylate. The enzymes catalyse two cycles of the ethylene-forming reaction for each cycle of the succinate-forming reaction, so that

the stoichiometry of the products ethylene and succinate is 2:1.

Synonyms ethylene-forming enzyme; EFE

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.13.12.19

Reaction 2-oxoglutarate + O2 = ethylene + 3 CO2 + 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.

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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