

succinate dehydrogenase

Cat. No. EXWM-1385

Lot. No. (See product label)

Introduction

Description

A flavoprotein (FAD) complex containing iron-sulfur centres. The enzyme is found in the inner mitochondrial membrane in eukaryotes and the plasma membrane of many aerobic or facultative bacteria and archaea. It catalyses succinate oxidation in the citric acid cycle and transfers the electrons to quinones in the membrane, thus constituting a part of the aerobic respiratory chain (known as complex II). In vivo the enzyme uses the quinone found in the organism - eukaryotic enzymes utilize ubiquinone, bacterial enzymes utilize ubiquinone or menaquinone, and archaeobacterial enzymes from the *Sulfolobus* genus use caldariellaquinone. cf. EC 1.3.5.4, fumarate reductase (quinone).

Synonyms

succinate dehydrogenase (quinone); succinate dehydrogenase (ubiquinone); succinic dehydrogenase; complex II (ambiguous); succinate dehydrogenase complex; SDH; succinate:ubiquinone oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.3.5.1

CAS No.

9028-11-9

Reaction

succinate + a quinone = fumarate + a quinol

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.