

## 2-furoyl-CoA dehydrogenase

Cat. No. EXWM-1441

Lot. No. (See product label)

### Introduction

#### Description

A copper protein. The oxygen atom of the -OH produced is derived from water, not O<sub>2</sub>; the actual oxidative step is probably dehydrogenation of a hydrated form -CHOH-CH<sub>2</sub>- to -C(OH)=CH-, which tautomerizes non-enzymically to -CO-CH<sub>2</sub>-, giving (5-oxo-4,5-dihydro-2-furoyl)-CoA. Methylene blue, nitro blue, tetrazolium and a membrane fraction from *Pseudomonas putida* can act as acceptors.

#### Synonyms

furoyl-CoA hydroxylase; 2-furoyl coenzyme A hydroxylase; 2-furoyl coenzyme A dehydrogenase; 2-furoyl-CoA:(acceptor) 5-oxidoreductase (hydroxylating)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.3.99.8

#### CAS No.

9068-18-2

#### Reaction

2-furoyl-CoA + H<sub>2</sub>O + acceptor = S-(5-hydroxy-2-furoyl)-CoA + reduced acceptor

#### 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.