Creative Enzymes®

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 O2; the actual oxidative step is probably dehydrogenation of a hydrated form -CHOH-CH2- to -C(OH)=CH-, which tautomerizes non-enzymically to -CO-CH2-, 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 + H2O + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.