

benzoyl-CoA reductase

Cat. No. EXWM-1403

Lot. No. (See product label)

Introduction

Description

An iron-sulfur protein. Requires Mg^{2+} or Mn^{2+} . Inactive towards aromatic acids that are not CoA esters but will also catalyse the reaction: ammonia + acceptor + 2 ADP + 2 phosphate = hydroxylamine + reduced acceptor + 2 ATP + H_2O . In the presence of reduced acceptor, but in the absence of oxidizable substrate, the enzyme catalyses the hydrolysis of ATP to ADP plus phosphate.

Synonyms

benzoyl-CoA reductase (dearomatizing)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.3.7.8

CAS No.

176591-18-7

Reaction

cyclohexa-1,5-diene-1-carbonyl-CoA + oxidized ferredoxin + 2 ADP + 2 phosphate = benzoyl-CoA + reduced ferredoxin + 2 ATP + 2 H_2O

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.