Creative Enzymes®

benzoyl-CoA reductase

Cat. No. EXWM-1403

Lot. No. (See product label)

Introduction

Description	An iron-sulfur protein. Requires Mg2+ or Mn2+. 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 + H2O. 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 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

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.