Creative Enzymes®

(R)-benzylsuccinyl-CoA dehydrogenase

Cat. No. EXWM-1410

Lot. No. (See product label)

Introduction

Description	Requires FAD as prosthetic group. Unlike other acyl-CoA dehydrogenases, this enzyme exhibits high substrate- and enantiomer specificity; it is highly specific for (R)-benzylsuccinyl-CoA and is inhibited by (S)-benzylsuccinyl-CoA. Forms the third step in the anaerobic toluene metabolic pathway in Thauera aromatica. Ferricenium ion is an effective artificial electron acceptor.
Synonyms	BbsG; (R)-benzylsuccinyl-CoA:(acceptor) oxidoreductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.8.3
Reaction	(R)-2-benzylsuccinyl-CoA + electron-transfer flavoprotein = (E)-2-benzylidenesuccinyl-CoA + reduced electron-transfer flavoprotein
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 ℃.