

## (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 °C for short term. For long term storage, store it at -20 °C~-80 °C.