

bile acid CoA-transferase

Cat. No. EXWM-3421

Lot. No. (See product label)

Introduction

Description The enzyme, characterized from the gut bacterium Clostridium scindens, catalyses

the last step in bile acid 7α -dehydroxylation, the removal of the CoA moiety from the products. By using a transferase rather than hydrolase, the bacteria conserve the thioester bond energy, saving ATP molecules. Clostridium scindens possesses two forms of the enzyme, encoded by the baiF and baiK genes. While the enzymes have a broad acceptor specificity and can use allocholate, ursodeoxycholate, and β -muricholate, the donor specificity is more strict. BaiF acts on lithocholoyl-CoA and

deoxycholoyl-CoA, and BaiK acts only on the latter.

Synonyms baiF (gene name); baiK (gene name); bile acid coenzyme A transferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.8.3.25

Reaction (1) lithocholoyl-CoA + cholate = lithocholate + choloyl-CoA; (2) deoxycholoyl-CoA

+ cholate = deoxycholate + choloyl-CoA

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

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

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1