

cholate-CoA ligase

Cat. No. EXWM-5709

Lot. No. (See product label)

Introduction

Description Requires Mg2+ for activity. The mammalian enzyme is membrane-bound and

catalyses the first step in the conjugation of bile acids with amino acids, converting bile acids into their acyl-CoA thioesters. Chenodeoxycholate, deoxycholate, lithocholate and trihydroxycoprostanoate can also act as substrates. The bacterial enzyme is soluble and participates in an anaerobic bile acid 7 α -dehydroxylation

pathway.

Synonyms BAL; bile acid CoA ligase; bile acid coenzyme A ligase; choloyl-CoA synthetase;

choloyl coenzyme A synthetase; cholic thiokinase; cholate thiokinase; cholic acid:CoA ligase; $3\alpha,7\alpha,12\alpha$ -trihydroxy-5 β -cholestanoyl coenzyme A synthetase; $3\alpha,7\alpha,12\alpha$ -trihydroxy-5 β -cholestanoate-CoA ligase; $3\alpha,7\alpha,12\alpha$ -trihydroxy-5 β -cholestanoate-CoA synthetase; THCA-CoA ligase; $3\alpha,7\alpha,12\alpha$ -trihydroxy-5 β -cholestanate-CoA ligase; $3\alpha,7\alpha,12\alpha$ -trihydroxy-5 β -cholestanate-CoA ligase (AMP-

forming); cholyl-CoA synthetase; trihydroxycoprostanoyl-CoA synthetase

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.2.1.7

CAS No. 9027-90-1

Reaction (1) ATP + cholate + CoA = AMP + diphosphate + choloyl-CoA; (2) ATP + (25R)-

 3α , 7α , 12α -trihydroxy- 5β -cholestan-26-oate + CoA = AMP + diphosphate + (25R)-

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 $3\alpha,7\alpha,12\alpha$ -trihydroxy- 5β -cholestanoyl-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

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

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