

## enterobactin synthase

Cat. No. EXWM-5735

Lot. No. (See product label)

## Introduction

**Description** This enzyme complex catalyses the conversion of three molecules each of 2,3-

dihydroxybenzoate and L-serine to form the siderophore enterobactin. In

Escherichia coli the complex is formed by EntB (an aryl carrier protein that has to be activated by 4'-phosphopantetheine), EntD (a phosphopantetheinyl transferase that activates EntB), EntE (catalyses the ATP-dependent condensation of 2,3-dihydroxybenzoate and holo-EntB to form the covalently arylated form of EntB), and EntF (a four domain protein that catalyses the activation of L-serine by ATP, the condensation of the activated L-serine with the activated 2,3-dihydroxybenzoate, and the trimerization of three such moieties to a single enterobactin molecule).

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**Synonyms** N-(2,3-dihydroxybenzoyl)-serine synthetase; 2,3-dihydroxybenzoylserine

synthetase; 2,3-dihydroxybenzoate-serine ligase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 6.3.2.14

**CAS No.** 37318-63-1

**Reaction** 6 ATP + 3 2,3-dihydroxybenzoate + 3 L-serine = enterobactin + 6 AMP + 6

diphosphate

**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.

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