

## aerobactin synthase

Cat. No. EXWM-5756

Lot. No. (See product label)

### Introduction

**Description** Requires Mg<sup>2+</sup>. Aerobactin is one of a group of high-affinity iron chelators known as siderophores and is produced under conditions of iron deprivation. It is a dihydroxamate comprising two molecules of N6-acetyl-N6-hydroxy-L-lysine and one molecule of citric acid. This enzyme catalyses the second of two synthase reactions to link N6-acetyl-N6-hydroxy-L-lysine and citrate.

**Synonyms** iucC (gene name)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.3.2.39

**Reaction**  $2 \text{ ATP} + \text{N2-citryl-N6-acetyl-N6-hydroxy-L-lysine} + \text{N6-acetyl-N6-hydroxy-L-lysine} + \text{H}_2\text{O} = 2 \text{ ADP} + 2 \text{ phosphate} + \text{aerobactin}$

**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.