Creative Enzymes®

# N2-citryl-N6-acetyl-N6-hydroxylysine synthase

*Cat. No. EXWM-5755*

*Lot. No.* (See product label)

## Introduction

***Description*** Requires Mg2+. 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 citrate. This enzyme catalyses the first of two synthase reactions to link N6-acetyl-N6-hydroxy-L-lysine and citrate.

***Synonyms*** Nα-citryl-Nε-acetyl-Nε-hydroxylysine synthase; iucA (gene name)

## Product Information

***Form*** Liquid or lyophilized powder

***EC Number*** EC 6.3.2.38

***Reaction*** 2 ATP + citrate + N6-acetyl-N6-hydroxy-L-lysine + H2O = 2 ADP + 2 phosphate + N2-citryl-N6-acetyl-N6-hydroxy-L-lysine

***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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.