

## N-succinylornithine carbamoyltransferase

Cat. No. EXWM-2013

Lot. No. (See product label)

### Introduction

#### Description

This enzyme is specific for N-succinyl-L-ornithine and cannot use either L-ornithine (see EC 2.1.3.3, ornithine carbamoyltransferase) or N-acetyl-L-ornithine (see EC 2.1.3.9, N-acetylornithine carbamoyltransferase) as substrate. However, a single amino-acid substitution (Pro90 → Glu90) is sufficient to switch the enzyme to one that uses N-acetyl-L-ornithine as substrate. It is essential for de novo arginine biosynthesis in the obligate anaerobe *Bacteroides fragilis*, suggesting that this organism uses an alternative pathway for synthesizing arginine.

#### Synonyms

succinylornithine transcarbamylase; N-succinyl-L-ornithine transcarbamylase; SOTCase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.1.3.11

#### Reaction

carbamoyl phosphate + N2-succinyl-L-ornithine = phosphate + N-succinyl-L-citrulline

#### 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.