

## 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.