

succinylornithine transaminase

Cat. No. EXWM-2922

Lot. No. (See product label)

Introduction

Description

A pyridoxal-phosphate protein. Also acts on N2-acetyl-L-ornithine and L-ornithine, but more slowly. In *Pseudomonas aeruginosa*, the arginine-inducible succinylornithine transaminase, acetylornithine transaminase (EC 2.6.1.11) and ornithine aminotransferase (EC 2.6.1.13) activities are catalysed by the same enzyme, but this is not the case in all species. This is the third enzyme in the arginine succinyltransferase (AST) pathway for the catabolism of arginine. This pathway converts the carbon skeleton of arginine into glutamate, with the concomitant production of ammonia and conversion of succinyl-CoA into succinate and CoA. The five enzymes involved in this pathway are EC 2.3.1.109 (arginine N-succinyltransferase), EC 3.5.3.23 (N-succinylarginine dihydrolase), EC 2.6.1.81 (succinylornithine transaminase), EC 1.2.1.71 (succinylglutamate-semialdehyde dehydrogenase) and EC 3.5.1.96 (succinylglutamate desuccinylase).

Synonyms

succinylornithine aminotransferase; N2-succinylornithine 5-aminotransferase; AstC; SOAT; 2-N-succinyl-L-ornithine:2-oxoglutarate 5-aminotransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.6.1.81

Reaction

N2-succinyl-L-ornithine + 2-oxoglutarate = N-succinyl-L-glutamate 5-semialdehyde + L-glutamate

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.