Creative Enzymes®

N-succinylarginine dihydrolase

Cat. No. EXWM-4525

Lot. No. (See product label)

Introduction

Description Arginine, N2-acetylarginine and N2-glutamylarginine do not act as substrates. This is the second 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 N2-succinylarginine dihydrolase; arginine succinylhydrolase; SADH; AruB; AstB; 2-N-succinyl-L-arginine iminohydrolase (decarboxylating)

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.5.3.23

Reaction N2-succinyl-L-arginine + 2 H2O = N2-succinyl-L-ornithine + 2 NH3 + CO2

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 ℃.