

## arginine-pyruvate transaminase

Cat. No. EXWM-2925

Lot. No. (See product label)

### Introduction

#### Description

A pyridoxal-phosphate protein. While L-arginine is the best substrate, the enzyme exhibits broad substrate specificity, with L-lysine, L-methionine, L-leucine, L-ornithine and L-glutamine also able to act as substrates, but more slowly. Pyruvate cannot be replaced by 2-oxoglutarate as amino-group acceptor. This is the first catalytic enzyme of the arginine transaminase pathway for L-arginine utilization in *Pseudomonas aeruginosa*. This pathway is only used when the major route of arginine catabolism, i.e. the arginine succinyltransferase pathway, is blocked.

#### Synonyms

arginine:pyruvate transaminase; AruH; ATase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.6.1.84

#### Reaction

L-arginine + pyruvate = 5-guanidino-2-oxopentanoate + L-alanine

#### 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.