

## putrescine aminotransferase

Cat. No. EXWM-2923

Lot. No. (See product label)

### Introduction

#### Description

A pyridoxal-phosphate protein. The product, 4-aminobutanal, spontaneously cyclizes to form 1-pyrroline, which is a substrate for EC 1.2.1.19, aminobutyraldehyde dehydrogenase. Cadaverine and spermidine can also act as substrates. Forms part of the arginine-catabolism pathway.

#### Synonyms

putrescine- $\alpha$ -ketoglutarate transaminase; YgjG; putrescine: $\alpha$ -ketoglutarate aminotransferase; PAT; putrescine:2-oxoglutarate aminotransferase; putrescine transaminase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.6.1.82

#### CAS No.

98982-73-1

#### Reaction

putrescine + 2-oxoglutarate = 1-pyrroline + L-glutamate + H<sub>2</sub>O (overall reaction);  
(1a) putrescine + 2-oxoglutarate = 4-aminobutanal + L-glutamate; (1b) 4-aminobutanal = 1-pyrroline + H<sub>2</sub>O (spontaneous)

#### 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.