

## β-(isoxazolin-5-on-2-yl)-L-alanine synthase

Cat. No. EXWM-2734

Lot. No. (See product label)

### Introduction

#### Description

The enzyme from the plants *Lathyrus odoratus* (sweet pea) and *L. sativus* (grass pea) also forms 3-(5-oxoisoxazolin-4-yl)-L-alanine in vitro (cf. EC 2.5.1.119). However, only 3-(5-oxoisoxazolin-2-yl)-L-alanine is formed in vivo. 3-(5-oxoisoxazolin-2-yl)-L-alanine is the biosynthetic precursor of the neurotoxin N3-oxalyl-L-2,3-diaminopropanoic acid, the cause of lathyrism. Closely related and possibly identical to EC 2.5.1.47, cysteine synthase, and EC 2.5.1.51, β-pyrazolylalanine synthase.

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.5.1.118

#### Reaction

O-acetyl-L-serine + isoxazolin-5-one = 3-(5-oxoisoxazolin-2-yl)-L-alanine + acetate

#### 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.