

## 2-iminobutanoate/2-iminopropanoate deaminase

Cat. No. EXWM-4586

Lot. No. (See product label)

### Introduction

#### Description

This enzyme, which has been found in all species and tissues examined, catalyses the hydrolytic deamination of imine intermediates formed by several types of pyridoxal-5'-phosphate-dependent dehydratases, such as EC 4.3.1.19, threonine ammonia-lyase and EC 4.3.1.17, L-serine ammonia-lyase. The reactions, which can occur spontaneously, are accelerated to minimize the cellular damage that could be caused by these reactive intermediates.

#### Synonyms

yjgF (gene name); ridA (gene name); enamine/imine deaminase (ambiguous)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.5.99.10

#### Reaction

(1) 2-iminobutanoate + H<sub>2</sub>O = 2-oxobutanoate + NH<sub>3</sub>; (2) 2-iminopropanoate + H<sub>2</sub>O = pyruvate + NH<sub>3</sub>

#### 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.