Creative Enzymes®

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 + H2O = 2-oxobutanoate + NH3; (2) 2-iminopropanoate + H2O = pyruvate + NH3
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 ℃.