

## phosphonoacetaldehyde hydrolase

Cat. No. EXWM-3774

Lot. No. (See product label)

### Introduction

#### Description

This enzyme destabilizes the C-P bond, by forming an imine between one of its lysine residues and the carbonyl group of the substrate, thus allowing this, normally stable, bond to be broken. The mechanism is similar to that used by EC 4.1.2.13, fructose-bisphosphate aldolase, to break a C-C bond. Belongs to the haloacetate dehalogenase family.

#### Synonyms

phosphonatase; 2-phosphonoacetylaldehyde phosphonohydrolase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.11.1.1

#### CAS No.

37289-42-2

#### Reaction

phosphonoacetaldehyde + H<sub>2</sub>O = acetaldehyde + phosphate

#### 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.