

## 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.