

## phosphinomethylmalate isomerase

Cat. No. EXWM-5007 Lot. No. (See product label)

Introduction	
Description	The enzyme, characterized from the bacterium Streptomyces viridochromogenes, is involved in bialaphos biosynthesis. The enzyme from the bacterium Kitasatospora phosalacinea participates in the biosynthesis of the related compound phosalacine. Both compounds contain the nonproteinogenic amino acid L-phosphinothricin that acts as a potent inhibitor of EC 6.3.1.2, glutamine synthetase. The similar enzyme EC 4.2.1.3, aconitate hydratase, cannot catalyse this reaction. pmi (gene name)
oynonymo	
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 4.2.1.166
Reaction	2-(hydroxyphosphonoylmethyl)malate = 3-(hydroxyphosphonoylmethyl)malate (overall reaction); (1a) 2-(hydroxyphosphonoylmethyl)malate = 2- (phosphinatomethylidene)butanedioate + H2O; (1b) 2- (phosphinatomethylidene)butanedioate + H2O = 3- (hydroxyphosphonoylmethyl)malate
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.