Creative Enzymes®

2-hydroxyethylphosphonate dioxygenase

Cat. No. EXWM-0592

Lot. No. (See product label)

Introduction

Description	Requires non-heme-Fe(II). Isolated from some bacteria including Streptomyces hygroscopicus and Streptomyces viridochromogenes. The pro-R hydrogen at C-2 of the ethyl group is retained by the formate ion. Any stereochemistry at C-1 of the ethyl group is lost. One atom from dioxygen is present in each product. Involved in phosphinothricin biosynthesis.
Synonyms	HEPD; phpD (gene name); 2-hydroxyethylphosphonate:O2 1,2-oxidoreductase (hydroxymethylphosphonate forming)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.13.11.72
Reaction	2-hydroxyethylphosphonate + O2 = hydroxymethylphosphonate + formate
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 ℃.