

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.