

(S)-2-hydroxypropylphosphonic acid epoxidase

Cat. No. EXWM-0505

Lot. No. (See product label)

Introduction

Description

This is the last enzyme in the biosynthetic pathway of fosfomycin, a broad-spectrum antibiotic produced by certain *Streptomyces* species. Contains non heme iron that forms a iron(IV)-oxo (ferryl) complex with hydrogen peroxide, which functions as a proton abstractor from the substrate.

Synonyms

HPP epoxidase; HppE; 2-hydroxypropylphosphonic acid epoxidase; Fom4; (S)-2-hydroxypropylphosphonate epoxidase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.11.1.23

Reaction

(S)-2-hydroxypropylphosphonate + H₂O₂ = (1R,2S)-1,2-epoxypropylphosphonate + 2 H₂O

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.