

proline 3-hydroxylase

Cat. No. EXWM-0645

Lot. No. (See product label)

Introduction

Description

Requires iron(II) for activity. Unlike the proline hydroxylases involved in collagen biosynthesis [EC 1.14.11.2 (procollagen-proline dioxygenase) and EC 1.14.11.7 (procollagen-proline 3-dioxygenase)], this enzyme does not require ascorbate for activity although it does increase the activity of the enzyme. The enzyme is specific for L-proline as D-proline, trans-4-hydroxy-L-proline, cis-4-hydroxy-L-proline and 3,4-dehydro-DL-proline are not substrates.

Synonyms

P-3-H

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.11.28

CAS No.

162995-24-6

Reaction

L-proline + 2-oxoglutarate + O₂ = cis-3-hydroxy-L-proline + succinate + CO₂

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.