Creative Enzymes®

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