Creative Enzymes®

peptidylglycine monooxygenase

Cat. No. EXWM-0961

Lot. No. (See product label)

Introduction

Description	A copper protein. Peptidylglycines with a neutral amino acid residue in the penultimate position are the best substrates for the enzyme. The product is unstable and dismutates to glyoxylate and the corresponding desglycine peptide amide, a reaction catalysed by EC 4.3.2.5 peptidylamidoglycolate lyase. Involved in the final step of biosynthesis of α-melanotropin and related biologically active peptides.
Synonyms	peptidylglycine 2-hydroxylase; peptidyl α-amidating enzyme; peptide-α-amide synthetase; synthase, peptide α-amide; peptide α-amidating enzyme; peptide α-amide synthase; peptidylglycine α-hydroxylase; peptidylglycine α-amidating monooxygenase; PAM-A; PAM-B; PAM

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.17.3
CAS No.	90597-47-0
Reaction	peptidylglycine + ascorbate + O2 = peptidyl(2-hydroxyglycine) + dehydroascorbate + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.