Creative Enzymes®

cypemycin cysteine dehydrogenase (decarboxylating)

Cat. No. EXWM-1436

Lot. No. (See product label)

Introduction

Description	Cypemycin, isolated from the bacterium Streptomyces sp. OH-4156, is a peptide antibiotic, member of the linaridins, a class of posttranslationally modified ribosomally synthesized peptides. The enzyme decarboxylates and reduces the C-terminal L-cysteine residue, producing a reactive ethenethiol group that reacts with a dethiolated cysteine upstream to form an aminovinyl-methyl-cysteine loop that is important for the antibiotic activity of the mature peptide.
Synonyms	cypemycin decarboxylase; CypD

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.99.36
Reaction	cypemycin(1-18)-L-Cys-L-Leu-L-Val-L-Cys + acceptor = C3.19,S21-cyclocypemycin(1-18)-L-Ala-L-Leu-N-thioethenyl-L-valinamide + CO2 + H2S + reduced acceptor
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 ℃.