

## 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 + CO<sub>2</sub> + H<sub>2</sub>S + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.