

albonoursin synthase

Cat. No. EXWM-1374

Lot. No. (See product label)

Introduction

Description

A flavoprotein from the bacterium *Streptomyces noursei*. The enzyme can also oxidize several other cyclo dipeptides, the best being cyclo(L-tryptophyl-L-tryptophyl) and cyclo(L-phenylalanyl-L-phenylalanyl).

Synonyms

cyclo(dipeptide):oxygen oxidoreductase; cyclic dipeptide oxidase; AlbA

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.3.3.13

Reaction

cyclo(L-leucyl-L-phenylalanyl) + 2 O₂ = albonoursin + 2 H₂O₂ (overall reaction);
(1a) cyclo(L-leucyl-L-phenylalanyl) + O₂ = cyclo[(Z)-α,β-didehydrophenylalanyl-L-leucyl] + H₂O₂; (1b) cyclo[(Z)-α,β-didehydrophenylalanyl-L-leucyl] + O₂ = albonoursin + H₂O₂

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.