

reticuline oxidase

Cat. No. EXWM-1250

Lot. No. (See product label)

Introduction

Description

Contains FAD. The enzyme from the plant *Eschscholtzia californica* binds the cofactor covalently. Acts on (S)-reticuline and related compounds, converting the N-methyl group into the methylene bridge ('berberine bridge') of (S)-tetrahydroprotoberberines. The product of the reaction, (S)-scoulerine, is a precursor of protopine, protoberberine and benzophenanthridine alkaloid biosynthesis in plants.

Synonyms

BBE; berberine bridge enzyme; berberine-bridge-forming enzyme; tetrahydroprotoberberine synthase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.21.3.3

CAS No.

152232-28-5

Reaction

(S)-reticuline + O₂ = (S)-scoulerine + 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.