

## 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 + O<sub>2</sub> = (S)-scoulerine + H<sub>2</sub>O<sub>2</sub>

**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.