

## senecionine N-oxygenase

Cat. No. EXWM-0700

Lot. No. (See product label)

## Introduction

**Description** A flavoprotein. NADH cannot replace NADPH. While pyrrolizidine alkaloids of the senecionine and

monocrotaline types are generally good substrates (e.g. senecionine, retrorsine and monocrotaline), the enzyme does not use ester alkaloids lacking an hydroxy group at C-7 (e.g. supinine and phalaenopsine), 1,2-dihydro-alkaloids (e.g. sarracine) or unesterified necine bases (e.g. senkirkine) as substrates.

Senecionine N-oxide is used by insects as a chemical defense: senecionine N-oxide is non-toxic, but it is bioactivated to a toxic form by the action of cytochrome P-450 oxidase when absorbed by insectivores.

**Synonyms** senecionine monooxygenase (N-oxide-forming); SNO

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.101

**CAS No.** 220581-68-0

**Reaction** senecionine + NADPH + H+ + O2 = senecionine N-oxide + NADP+ + H2O

**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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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