

## non-specific polyamine oxidase

Cat. No. EXWM-1544

Lot. No. (See product label)

## Introduction

Description A flavoprotein (FAD). The non-specific polyamine oxidases may differ from each other considerably. The

enzyme from Saccharomyces cerevisiae shows a rather broad specificity and also oxidizes N8-

acetylspermidine. The enzyme from Ascaris suum shows high activity with spermine and spermidine, but also oxidizes norspermine. The enzyme from Arabidopsis thaliana shows high activity with spermidine, but

also oxidizes other polyamines. The specific polyamine oxidases are classified as EC 1.5.3.13 (N1-acetylpolyamine oxidase), EC 1.5.3.14 (polyamine oxidase (propane-1,3-diamine-forming)), EC 1.5.3.15 (N8-acetylspermidine oxidase (propane-1,3-diamine-forming)) and EC 1.5.3.16 (spermine oxidase).

**Synonyms** polyamine oxidase (ambiguous); Fms1; AtPAO3

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.5.3.17

**Reaction** (1) spermine + O2 + H2O = spermidine + 3-aminopropanal + H2O2; (2) spermidine + O2 + H2O =

putrescine + 3-aminopropanal + H2O2; (3) N1-acetylspermine + O2 + H2O = spermidine + 3-

acetamidopropanal + H2O2; (4) N1-acetylspermidine + O2 + H2O = putrescine + 3-acetamidopropanal +

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

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

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