

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-acetyl polyamine 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

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