Creative Enzymes®

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

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