

primary-amine oxidase

Cat. No. EXWM-1476

Lot. No. (See product label)

Introduction

Description

A group of enzymes that oxidize primary monoamines but have little or no activity towards diamines, such as histamine, or towards secondary and tertiary amines. They are copper quinoproteins (2,4,5-trihydroxyphenylalanine quinone) and, unlike EC 1.4.3.4, monoamine oxidase, are sensitive to inhibition by carbonyl-group reagents, such as semicarbazide. In some mammalian tissues the enzyme also functions as a vascular-adhesion protein (VAP-1).

Synonyms

amine oxidase (ambiguous); amine oxidase (copper-containing); amine oxidase (pyridoxal containing) (incorrect); benzylamine oxidase (incorrect); CAO (ambiguous); copper amine oxidase (ambiguous); Cu-amine oxidase (ambiguous); Cu-containing amine oxidase (ambiguous); diamine oxidase (incorrect); diamino oxyhydrase (incorrect); histamine deaminase (ambiguous); histamine oxidase (ambiguous); monoamine oxidase (ambiguous); plasma monoamine oxidase (ambiguous); polyamine oxidase (ambiguous); semicarbazide-sensitive amine oxidase (ambiguous); SSAO (ambiguous)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.4.3.21

Reaction

$\text{RCH}_2\text{NH}_2 + \text{H}_2\text{O} + \text{O}_2 = \text{RCHO} + \text{NH}_3 + \text{H}_2\text{O}_2$

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.