

nucleoside oxidase (H₂O₂-forming)

Cat. No. EXWM-0411

Lot. No. (See product label)

Introduction

Description

A heme-containing flavoprotein (FAD). Other purine and pyrimidine nucleosides (as well as 2'-deoxyribonucleosides and arabinosides) are substrates, but ribose and nucleotides are not substrates. The overall reaction takes place in two separate steps, with the 5'-dehydro nucleoside being released from the enzyme to serve as substrate for the second reaction. This enzyme differs from EC 1.1.3.28, nucleoside oxidase, as it produces hydrogen peroxide rather than water.

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.3.39

Reaction adenosine + 2 O₂ + H₂O = 9-riburonosyladenine + 2 H₂O₂ (overall reaction); (1a) adenosine + O₂ = 5'-dehydroadenosine + H₂O₂; (1b) 5'-dehydroadenosine + O₂ + H₂O = 9-riburonosyladenine + 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.