

## nucleoside oxidase (H<sub>2</sub>O<sub>2</sub>-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 O<sub>2</sub> + H<sub>2</sub>O = 9-riburonosyladenine + 2 H<sub>2</sub>O<sub>2</sub> (overall reaction); (1a) adenosine + O<sub>2</sub> = 5'-dehydroadenosine + H<sub>2</sub>O<sub>2</sub>; (1b) 5'-dehydroadenosine + O<sub>2</sub> + H<sub>2</sub>O = 9-riburonosyladenine + H<sub>2</sub>O<sub>2</sub>

**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.