

## cytokinin dehydrogenase

Cat. No. EXWM-1566

Lot. No. (See product label)

## Introduction

**Description** A flavoprotein(FAD). Catalyses the oxidation of cytokinins, a family of N6-

substituted adenine derivatives that are plant hormones, where the substituent is a dimethylallyl or other prenyl group. Although this activity was previously thought to be catalysed by a hydrogen-peroxide-forming oxidase, this enzyme does not

require oxygen for activity and does not form hydrogen peroxide. 2,6-

Dichloroindophenol, methylene blue, nitroblue tetrazolium, phenazine methosulfate and Cu(II) in the presence of imidazole can act as acceptors. This enzyme plays a part in regulating rice-grain production, with lower levels of the enzyme resulting in

enhanced grain production.

Synonyms N6-dimethylallyladenine:(acceptor) oxidoreductase; 6-N-

dimethylallyladenine:acceptor oxidoreductase; OsCKX2; CKX; cytokinin

oxidase/dehydrogenase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.5.99.12

*CAS No.* 55326-39-1

**Reaction** N6-dimethylallyladenine + acceptor + H2O = adenine + 3-methylbut-2-enal +

reduced acceptor

**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.

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