

## adenylate dimethylallyltransferase (ADP/ATP-dependent)

Cat. No. EXWM-2728

Lot. No. (See product label)

### Introduction

#### Description

Involved in the biosynthesis of cytokinins in plants. The IPT4 isoform from the plant *Arabidopsis thaliana* is specific for ADP and ATP. Other isoforms, such as IPT1 from *Arabidopsis thaliana* and the enzyme from the common hop, *Humulus lupulus*, also have a lower activity with AMP (cf. EC 2.5.1.27, adenylate dimethylallyltransferase).

#### Synonyms

cytokinin synthase (ambiguous); isopentenyltransferase (ambiguous); 2-isopentenyl-diphosphate:ADP/ATP  $\Delta$ 2-isopentenyltransferase; adenylate isopentenyltransferase (ambiguous); dimethylallyl diphosphate:ATP/ADP isopentenyltransferase: IPT

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.5.1.112

#### Reaction

(1) dimethylallyl diphosphate + ADP = diphosphate + N6-(dimethylallyl)adenosine 5'-diphosphate; (2) dimethylallyl diphosphate + ATP = diphosphate + N6-(dimethylallyl)adenosine 5'-triphosphate

#### 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.