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 Δ2-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.