Creative Enzymes®

leachianone-G 2''-dimethylallyltransferase

Cat. No. EXWM-2809

Lot. No. (See product label)

Introduction

Description	This membrane-bound enzyme is located in the plastids and requires Mg2+ for activity. The reaction forms the lavandulyl sidechain of sophoraflavanone G by transferring a dimethylallyl group to the 2'' position of another dimethylallyl group attached at postiion 8 of leachianone G. The enzyme is specific for dimethylallyl diphosphate as the prenyl donor, as it cannot be replaced by isopentenyl diphosphate or geranyl diphosphate. Euchrenone a7 (a 5-deoxy derivative of leachianone G) can also act as substrates, but more slowly. Along with EC 1.14.13.103 (8-dimethylallylnaringenin 2'-hydroxylase) and EC 2.5.1.70 (naringenin 8-dimethylallyltransferase), this enzyme forms part of the sophoraflavanone-G-biosynthesis pathway.
Synonyms	LG 2''-dimethylallyltransferase; leachianone G 2''-dimethylallyltransferase; LGDT

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.71
Reaction	dimethylallyl diphosphate + leachianone G = diphosphate + sophoraflavanone G
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 ℃.