Creative Enzymes®

[ribulose-bisphosphate carboxylase]-lysine N-methyltransferase

Cat. No. EXWM-1724

Lot. No. (See product label)

Introduction

Description	The enzyme catalyses three successive methylations of Lys-14 in the large subunits of hexadecameric higher plant ribulose-bisphosphate-carboxylase (EC 4.1.1.39). Only the three methylated form is observed. The enzyme from pea (Pisum sativum) also three-methylates a specific lysine in the chloroplastic isoforms of fructose-bisphosphate aldolase (EC 4.1.2.13).
Synonyms	rubisco methyltransferase; ribulose-bisphosphate-carboxylase/oxygenase N-methyltransferase; ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit εN-methyltransferase; S-adenosyl-L-methionine:[3-phospho-D-glycerate-carboxy-lyase (dimerizing)]-lysine 6-N-methyltransferase; RuBisCO methyltransferase; RuBisCO LSMT

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.1.1.127
CAS No.	139171-98-5
Reaction	3 S-adenosyl-L-methionine + [ribulose-1,5-bisphosphate carboxylase]-L-lysine = 3 S-adenosyl-L-homocysteine + [ribulose-1,5-bisphosphate carboxylase]-N6,N6,N6-trimethyl-L-lysine
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 ℃.