Creative Enzymes®

dichloroarcyriaflavin A synthase

Cat. No. EXWM-0609

Lot. No. (See product label)

Introduction

Description	The conversion of dichlorochromopyrrolate to dichloroarcyriaflavin A is a complex process that involves two enzyme components. RebP is an NAD-dependent cytochrome P-450 oxygenase that performs an aryl-aryl bond formation yielding the six-ring indolocarbazole scaffold. Along with RebC, a flavin-dependent hydroxylase, it also catalyses the oxidative decarboxylation of both carboxyl groups. The presence of RebC ensures that the only product is the rebeccamycin aglycone dichloroarcyriaflavin A. The enzymes are similar, but not identical, to StaP and StaC, which are involved in the synthesis of staurosporine.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.13.12.17
Reaction	dichlorochromopyrrolate + 4 O2 + 4 NADH + 4 H+ = dichloroarcyriaflavin A + 2 CO2 + 6 H2O + 4 NAD+
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 ℃.