Creative Enzymes®

biflaviolin synthase

Cat. No. EXWM-1028

Lot. No. (See product label)

Introduction

Description	This cytochrome-P-450 enzyme, from the soil-dwelling bacterium Streptomyces coelicolor A3(2), catalyses a phenol oxidation C-C coupling reaction, which results in the polymerization of flaviolin to form biflaviolin or triflaviolin without the incorporation of oxygen into the product. The products are highly conjugated pigments that protect the bacterium from the deleterious effects of UV irradiation.
Synonyms	CYP158A2; CYP 158A2; cytochrome P450 158A2

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.21.7
Reaction	(1) 2 flaviolin + NADPH + H+ + O2 = 3,3'-biflaviolin + NADP+ + 2 H2O; (2) 2 flaviolin + NADPH + H+ + O2 = 3,8'-biflaviolin + NADP+ + 2 H2O
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 ℃.