

trans-cinnamate 2-monooxygenase

Cat. No. EXWM-0739

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on paired donors, with O₂ as oxidant and incorporation or reduction of oxygen. The oxygen incorporated need not be derived from O₂ with NADH or NADPH as one donor, and incorporation of one atom of oxygen into the other donor. The systematic name of this enzyme class is trans-cinnamate,NADPH:oxygen oxidoreductase (2-hydroxylating). Other names in common use include cinnamic acid 2-hydroxylase, cinnamate 2-monooxygenase, cinnamic 2-hydroxylase, cinnamate 2-hydroxylase, and trans-cinnamic acid 2-hydroxylase. This enzyme participates in phenylalanine metabolism and phenylpropanoid biosynthesis.

Synonyms

cinnamic acid 2-hydroxylase; cinnamate 2-monooxygenase; cinnamic 2-hydroxylase; cinnamate 2-hydroxylase; trans-cinnamic acid 2-hydroxylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.13.14

CAS No.

53126-56-0

Reaction

trans-cinnamate + NADPH + H⁺ + O₂ = 2-hydroxycinnamate + NADP⁺ + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.