

3-phenylpropanoate dioxygenase

Cat. No. EXWM-0688

Lot. No. (See product label)

Introduction

Description

This enzyme catalyses a step in the pathway of phenylpropanoid compounds degradation. It catalyses the insertion of both atoms of molecular oxygen into positions 2 and 3 of the phenyl ring of 3-phenylpropanoate or (2E)-3-phenylprop-2-enoate.

Synonyms

HcaA1A2CD; Hca dioxygenase; 3-phenylpropionate dioxygenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.12.19

Reaction

(1) 3-phenylpropanoate + NADH + H⁺ + O₂ = 3-(cis-5,6-dihydroxycyclohexa-1,3-dien-1-yl)propanoate + NAD⁺; (2) (2E)-3-phenylprop-2-enoate + NADH + H⁺ + O₂ = (2E)-3-(2,3-dihydroxyphenyl)prop-2-enoate + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.