Creative Enzymes®

(S)-norcoclaurine synthase

Cat. No. EXWM-5062

Lot. No. (See product label)

Introduction

Description	The reaction makes a six-membered ring by forming a bond between C-6 of the 3,4-dihydroxyphenyl group of the dopamine and C-1 of the aldehyde in the imine formed between the substrates. The product is the precursor of the benzylisoquinoline alkaloids in plants. The enzyme, formerly known as (S)-norlaudanosoline synthase, will also catalyse the reaction of 4-(2-aminoethyl)benzene-1,2-diol + (3,4-dihydroxyphenyl)acetaldehyde to form (S)-norlaudanosoline, but this alkaloid has not been found to occur in plants.
Synonyms	(S)-norlaudanosoline synthase; 4-hydroxyphenylacetaldehyde hydro-lyase (adding dopamine)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.1.78
CAS No.	79122-01-3
Reaction	4-hydroxyphenylacetaldehyde + dopamine = (S)-norcoclaurine + 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 ℃.