Creative Enzymes®

# (S)-norcoclaurine synthase

*Cat. No. EXWM-5062*

*Lot. No.* (See product label)

## Introduction

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| ***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

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 3.5.99.14 |
| ***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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |