

## (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 benzyloquinoline 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 + H<sub>2</sub>O

**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.