CREATIVE BIOMART®
Assay Kit

Cinnamate-4-Hydroxylase activity assay kit

Product Information

Product Overview

Cinnamate-4-hydroxylase (C4H, EC 1.14.13.11) is a key enzyme in the phenylpropanoid metabolic pathway. It can effectively regulate the synthesis of flavonoid secondary metabolites, and its activity can serve as a physiological indicator of plant resistance. This product uses cinnamic acid as the substrate. Under optimal conditions for the enzymatic reaction, cinnamate-4-hydroxylase catalyzes the substrate to produce 4-hydroxy-trans-cinnamic acid. The product, 4-hydroxy-trans-cinnamic acid, has a maximum absorption peak at 340 nm. By measuring the change in absorbance at 340 nm, the activity of the enzyme can be calculated.

Size

48 Samples

Storage

-20□

Shipping

Ice pack

Kit Components

Extraction Solution: Liquid, 60mL × 1 bottle, stored at 4°C.
Reagent 1: Liquid, 2.5mL × 1 vial, stored at 4°C.
Reagent 2: Powder × 2 bottles, stored at -20°C.
Before use, shake the bottles to bring the powder to the bottom, then add 10mL of distilled water to each bottle to dissolve. Unused reagent should be aliquoted and stored at -20°C, avoid repeated freeze-thaw cycles, and use within one week.
Reagent 3: Liquid, 15mL × 1 bottle, stored at 4°C.
Reagent 4: Liquid, 2.5mL × 1 bottle, stored at 4°C.
Reagent 5: Liquid, 3mL × 1 bottle, stored at 4°C.

Materials Required but Not Supplied

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Microplate reader, 96-well plate, benchtop centrifuge, adjustable pipette, mortar, ice, and distilled water.

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