

4CL Assay Kit (UV Spectrophotometry)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder -20°C for 3 years
In solvent -80°C for 2 years

Actual storage temperature shall be subject to the COA.

Biological Description

Description

4-coumarate: CoA ligase (4CL) is a key enzyme linking the phenylpropanoic acid pathway and the specific lignin synthesis pathway. It mainly catalyzes cinnamic acid to generate the corresponding cinnamic acid-CoA ester, and serves as a regulatory point for the metabolic flow in the synthesis of lignin and other phenylpropanoid compounds. This enzyme mainly exists in higher plants, yeasts, and fungi. Studying this enzyme can help explore the metabolic mechanism of lignin deposition during the development of various biological cells.

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