

4-Coumarate CoA Ligase Activity Assay kit

4-Coumaric Acid: Coenzyme A Ligase (4-coumarate: CoA ligase, 4CL) is one of the keyenzymesin lignin biosynthesis. It mainly catalyzes cinnamic acid and its hydroxy or methoxy derivativestoproduce corresponding coenzyme A esters. These intermediates then enter the pathway of synthesisof phenylpropanoid derivatives. This enzyme mainly exists in higher plants, yeasts andfungi. Thestudy of this enzyme can explore the metabolic mechanism of lignin deposition duringthedevelopment of various biological cells, and provide the basis for reducing the content of fruit stonecells and improving their quality. 4-coumaric acid and CoA are catalyzed by 4CL to form 4-coumaric acid CoA, whichhasacharacteristic absorption peak at 333 nm. The formation rate of 4-coumaric acid CoAcanreflect4CL activity.

Catalog No.	250422
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	-20°C/6 months
Shipping	Gel Packs

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