

4-Coumarate CoA Ligase Activity Assay kit

4-Coumaric Acid: Coenzyme A Ligase (4-coumarate: CoA ligase, 4CL) is one of the key enzymes in lignin biosynthesis. It mainly catalyzes cinnamic acid and its hydroxy or methoxy derivatives to produce corresponding coenzyme A esters. These intermediates then enter the pathway of synthesis of phenylpropanoid derivatives. This enzyme mainly exists in higher plants, yeasts and fungi. The study of this enzyme can explore the metabolic mechanism of lignin deposition during the development of various biological cells, and provide the basis for reducing the content of fruit stone cells and improving their quality. 4-coumaric acid and CoA are catalyzed by 4CL to form 4-coumaric acid CoA, which has a characteristic absorption peak at 333 nm. The formation rate of 4-coumaric acid CoA can reflect 4CL 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