



Europa Bioproducts Ltd

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ACE Kit-WST



Colorimetric microplate assay

Simple protocol

No organic solvent required

High reproducibility

Item # Unit Size
A502-10 100 tests

Contents of the Kit:

Enzyme A	2 tubes	Enzyme B	2 tubes
Enzyme C	2 tubes	Coenzyme	2 tubes
Substrate buffer	1 ml x 2	Indicator solution	
	5ml x 2		

Storage Condition: 0-5°C

Shipping Condition: ambient temperature

Required Equipment and Materials

plate reader with 450 nm filter; 96-well culture plate, 2-20 µl, 20-200 µl, 100-1000 µl and multi-channel pipettes; 37°C incubator, Disposable syringe (1 ml)

Product Description

The kit is used for the determination of ACE inhibition activity. ACE works in the Renin- Angiotensin system, which is one of the mechanisms of blood pressure control, to convert Angiotensin I to the vasopressor Angiotensin II. This enzyme also contributes to elevated blood pressure due to its role in breaking down the antihypertensive peptide Bradykinin. In recent years, food and supplements containing ingredients that block ACE have received attention for their use in preventing high blood pressure. The conventional method of measuring ACE inhibition employs the synthetic substrate Hippuryl-His-Leu.

Hippuric acid from the synthetic substrate is extracted with ethyl acetate, condensed, redissolved, and then read at an absorbance of 228 nm. This method is cumbersome and measurement is subjected to error due to residual ethyl acetate. ACE inhibition Assay Kit enzymatically detects 3-Hydroxybutyric acid (3HB), which is made from 3- Hydroxybutyryl-Gly-Gly-Gly (3HB-GGG). Using a 96-well format, it is possible to test multiple samples at one time. In addition, there is no need to use harmful organic solvents, resulting in a safe, simple, and highly reproducible assay.



CERTIFICATE NO. 82422

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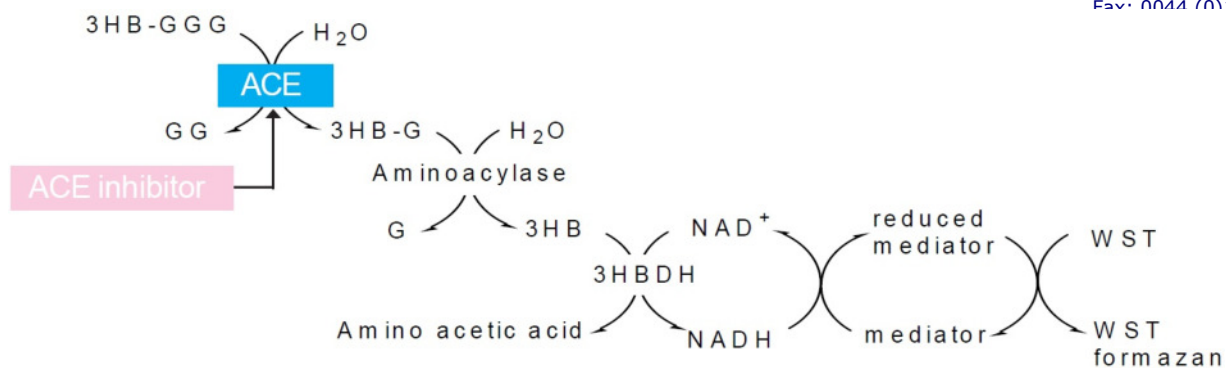


Fig. 1 Principle of the assay system to determine ACE activity or inhibition activity.



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