



Beta-Glucuronidase 20-HETE ELISA Kit

Catalog number: EK7126

For detection of multiple analytes using one single assay.

This package insert must be read in its entirety before using this product.

For research use only. Not for use in diagnostic procedures.

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Size: 96 wells/kit

Sample Type: See datasheet for sample type details

Sensitivity: 10pg/ml

Assay Range: 10-1,000,000pg/ml

Storage: All components are stored below -20°C and should not be re-frozen and thawed more than necessary. (Ship on dry ice.)

Introduction

This competitive ELISA kit is for determination of free and glucuronidated 20-HETE (also known as 20-OH-AA) levels in biological samples. The specificity of the 20-HETE ELISA was investigated using authentic 20-HETE and a panel of fatty acids which, based on their structure, might be anticipated to compete with 20-HETE for binding to antibodies for 20-HETE. Anti-20-HETE did not cross-react with 14,15- and 11,12-DHETs, PGE2 and showed almost no cross-reactivity even with structurally extremely similar arachidonic acid (AA), linoleic acid and linolenic acid as shown in the competitive ELISA analysis. Considering the only difference between 20-HETE and AA is an oxygen molecule, the specificity of the 20-HETE ELISA is a surprise.

Human essential and salt-sensitive hypertension was related to differential AA metabolism by cytochrome P450 (CYP) 4A which has AA--hydroxylase (20-HETE synthesis) activity. Increased circulating insulin inhibits 20-HETE synthesis in obese hypertensive subjects.

Recently, CYP4F2 genetic variants, which increased urinary 20-HETE secretion, were found to be correlated with the risk for hypertension in a Chinese population.

This kit can be used for the determination of free 20-HETE and glucuronidated 20-HETE in serum, plasma, cells, and tissues following proper isolation and purification. Instructions are provided as to the proper isolation and purification in the following pages.

Kit Components

See datasheet for kit components details

Materials Required, but Not Provided

See datasheet for other equipment and materials needed but not provided

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