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EET Formation Activity Measurement using DHET ELISA Kit Cat. # DH2, DH12, DH22, DH102, DH5, DH15, DH25 and DH105

DH2, DH12, DH22 or DH102 to be used for 14,15-EET/DHET measurement is the same kit as DH1 for measurement of 14,15-DHET. The only difference with DH2, DH12 or DH22 compared with DH1 is the sample preparation step (NOT ELISA kit) in which EET is chemically changed to DHET.

Same with the 11,12-EET/DHET kit. DH5, DH15, DH25 or DH105 to be used for 11,12-EET/DHET measurement is the same kit as DH4 for measurement of 11,12-DHET. The only difference with DH5, DH15 or DH25 is sample preparation step (NOT ELISA kit) in which EET is chemically changed to DHET.

EET+DHET can be measured after chemically changing EET to DHET. However, if the EET in cells or in blood is changed to DHET by abundantly expressed soluble epoxide hydrolase, measurement of DHET without chemically changing EET to DHET is suitable. Please find an attached flyer with references.

For example, when 14,15-DHET levels were measured in urine samples obtained from Spontaneously Hypertensive rats, 14,15-DHET levels in the urine were measured without changing EET to DHET. High 14,15-DHET levels were indicative of increased soluble epoxide hydrolase activity of the rat (thus soluble epoxide hydrolase-dependent hypertension).

However, when P450 2C23 activity of rat microsomes was measured, the rat microsomes were incubated with arachidonic acid (substrate of P450 2C23) and, then, EET + DHET levels in the reaction mixture were measured after acid hydrolysis of EET to DHET, which was indicative of P450 2C23 activity.

Our protocols are included in this package.