Hypertension ELISA (11,12-DHET) kit

Cat # DH 4: ELISA kit for measuring 11,12-DHET in biological samples: $247
This competitive ELISA kit is for determination of 11,12-DHET levels in biological samples. Anti-11,12-DHET does not cross-react with 5(S)15(S)DiHETE and arachidonic acid (AA) and minimally cross-reacts with 8,9- and 14,15-DHETs. The 11,12-DHET is a metabolite of soluble epoxide hydrolase (sEH)-mediated metabolism of the 11,12-EET, which is generated by AA epoxyenase activity of cytochromes P450. The 11,12-DHET plays a critical role in vasorelaxation mediated by endothelial cell large-conductance Ca\textsuperscript{2+}-activated K\textsuperscript{+} (BK\textsubscript{Ca}) channels. Whereas 8,9- and 14,15-DHETs dilated isolated human coronary arterioles (HCAs) less than the corresponding EETs, 11,12-DHET dilated them similarly to the 11,12-EET. 11,12-DHET ELISA was used to quantify eicosapentaenoic acid (EPA)-dependent increase of 11,12-EET levels (via PPAR\textgamma) in endothelial cells. High glucose reduced 11,12-EET production in porcine coronary artery endothelial cells, which impaired EET/endothelium-derived hyperpolarizing factor (EDHF)-mediated vasodilation in coronary arterioles. Recently, 11,12-EETs were found to protect against angiotensin II-induced abdominal aortic aneurysm in mice and increased after indapamide treatment, which lowered blood pressure.

Each kit for triplicate analyses of up to 24 samples contains one 96 well plate, one tube of 11,12-DHET conjugated horseradish peroxidase (HRP), and buffers for sample and HRP dilutions, and plate washing.

Cat # DH 14: 2X ELISA kits for measuring 11,12-DHET in biological samples: 2X $241.50=$483
Cat # DH 24: 5X ELISA kits for measuring 11,12-DHET in biological samples: 5X $219.60=$1098
Cat # DH 104: 10X ELISA kits for measuring 11,12-DHET in biological samples: 10X $205.30=$2053