12(S)-HETE ELISA kit

Sensitive ELISA kit enabling detection of 12(S)-HETE in culture supernatants and plasma from any species.

The 12(S)-HETE EIA kit is a colorimetric competitive enzyme immunoassay kit with results in 5 hours. Absorbance is read at 405 nm. Fast, accurate, and reliable results are obtained with ready-to-use liquid color-coded reagents that reduce error.

HETEs are byproducts generated by the metabolism of arachidonic acid by lipoxygenases. 12(S)-HETE is the stereospecific hydroxy product from the reduction of 12(S)-hydroperoxy tetraenoic eicosatetraenoic acid [12(S)-HpETE], which itself is a 12-lipoxygenase metabolite of arachidonic acid. 12(S)-HETE is chemotactic and chemokinetic for polymorphonuclear leukocytes and vascular smooth muscle cells. It also acts as a second messenger in angiotensin-II induced aldosterone production. 15-hydroxyeicosatetraenoic acid [15(S)-HETE] is the major hydroxy derivative of arachidonic acid when acted upon by 15-lipoxygenase. It is also the primary monohydroxy acid synthesized by the lipoxygenase activity of Cyclooxygenase-1 upon linoleic acid. 15(S)-HETE acts as a paracrine regulator of smooth muscle and lung neutrophil recruitment, and elevated levels of 15(S)-HETE are associated with asthma, rhinitis, chronic paranasal sinusitis and rheumatoid arthritis.

Citations: 39 View Online »

Ordering Information

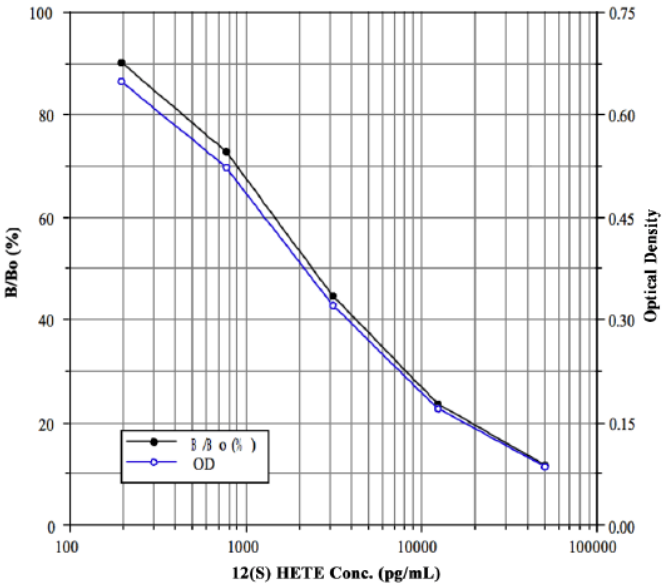
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ADI-900-050	96 wells

Manuals, SDS & CofA

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- Easy-to-use color-coded reagents and pre-coated plates reduce errors and save time in the lab
- High throughput format, obtain results from up to 39 samples in duplicate in just 5 hours
- Highly sensitive assay, measure as little as 146 pg/ml
- Reliable and reproducible results day-after-day and lot-after-lot


100
80
60
40
20
0
0.75
0.60
0.45
0.30
0.15
0.00
B/Bo (%)
Optical Density
B/Bo (%)
OD
100
1000
10000
100000
12(S) HETE Conc. (pg/mL)

Handling & Storage

Use/Stability	Store all components at +4°C, except standard and conjugate at -20°C.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	12(S)-hydroperoxy tetraenoic eicosatetraenoic acid
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of 12(S)-HETE in culture supernatants and plasma from any species. Cited sample types include serum, renal interstitial fluid and tissue.
Assay Time	5 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	GxR IgG Microtiter plate, Conjugate, Antibody, Assay buffer, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution
Sensitivity	146 pg/ml (range 195 – 50,000 pg/ml)
Species Reactivity	Species independent
Wavelength	405 nm

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