Rat 4-Hydroxynonenal (HNE) ELISA Kit

Description

Alternative Names:	Â 4-HNE, HNE, 4-hydroxy-2-nonenal, 4-Hydroxynonenal
Catalogue No.	3738ELK
Size	96T
Reactivity	Rat
Range	15.63-1000 pg/mL
Sensitivity	7.54 pg/mL
Assay Type	Competitive Inhibition
Sample Type	Serum, plasma, tissue homogenates
Assay Length	2h
Research Area	Signal transduction; Metabolic pathway; Infection immunity; Hormone me
Test principle	This assay employs the competitive inhibition enzyme immunoassay tech provided in this kit has been pre-coated with HNE protein. Standards or s appropriate microtiter plate wells then with a biotin-conjugated antibody s conjugated to Horseradish Peroxidase (HRP) is added to each microplat TMB substrate solution is added. The enzyme-substrate reaction is termi sulphuric acid solution and the color change is measured spectrophotom 450nm Â± 10nm. The concentration of HNE in the samples is then deter of the samples to the standard curve.

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	CONCENTRATION (NG/ML)	OD	
Standard Curve	1000.00	0.182	â€”
	500.00	0.275	â€”
	250.00	0.557	â€”
	125.00	0.897	â€”
	62.50	1.253	â€”
	31.25	1.587	â€”
	15.63	1.863	â€”
	0.00	2.475	â€”

Precision	Intra-assay Precision (Precision within an assay)ï¼šCV%<8% Three samples of known concentration were tested twenty times on one precision. Inter-assay Precision (Precision between assays)ï¼šCV%<10% Three samples of known concentration were tested in forty separate assa precision.

Recovery

Matrices listed below were spiked with certain level of recombinant 4-HN
were calculated by comparing the measured value to the expected amou

MATRIX	RECOVERY RANGE
serum(n=5)	82-95%
EDTA plasma(n=5)	95-107%
Heparin plasma(n=5)	87-99%

Linearity

The linearity of the kit was assayed by testing samples spiked with appro
and their serial dilutions. The results were demonstrated by the percenta
to the expected.

MATRIX	1:2	1:4	
serum(n=5)	82-93%	95-104%	8
EDTA plasma(n=5)	86-98%	91-103%	8
Heparin plasma(n=5)	83-94%	83-96%	9

Note: For Research Use Only

Date Created
2024/07/03