Rat heme oxygenase 1,HO-1 ELISA Kit

Product Code	CSB-E08267r
Abbreviation	HMOX1
Target Name	heme oxygenase (decycling) 1
Uniprot No.	P06762
Alias	HO-1, HSP32, bK286B10, heme oxygenase (decyclizing) 1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cardiovascular
Gene Names	Hmox1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat HMOX1 ELISA Kit was designed for the quantitative measurement of Rat HMOX1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat HO-1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	98
	Range %	94-102
1:2	Average %	100
	Range %	96-107
1:4	Average %	86
	Range %	82-90
1:8	Average %	94
	Range %	90-100

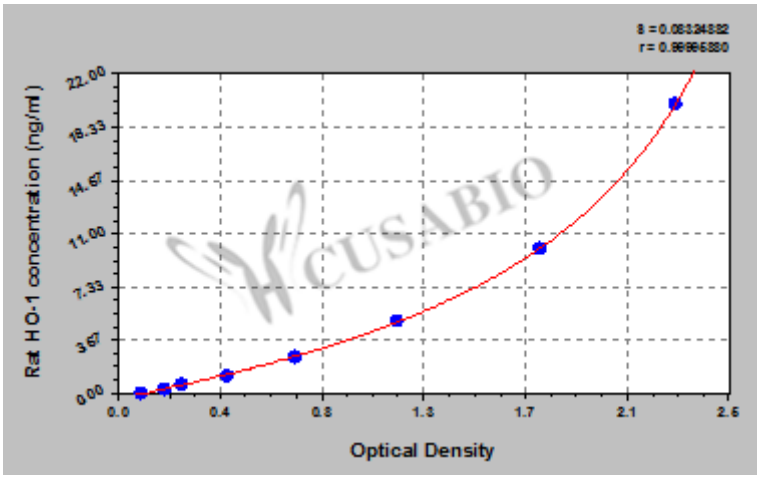
Recovery

The recovery of rat HO-1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	87-99
EDTA plasma (n=4)	96	91-103

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
20	2.323	2.252	2.288	2.185
10	1.776	1.692	1.734	1.631
5	1.182	1.105	1.144	1.041
2.5	0.725	0.743	0.734	0.631
1.25	0.465	0.443	0.454	0.351
0.625	0.275	0.259	0.267	0.164
0.312	0.192	0.207	0.200	0.097
0	0.104	0.102	0.103	

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E08267r.pdf","filename":"MSDS"}}