





Dog Orexin(HCRT) ELISA kit

assess.

Product Code	CSB-EL010230DO
Abbreviation	HCRT
Target Name	hypocretin (orexin) neuropeptide precursor
Uniprot No.	Q9GLF6
Alias	NRCLP1, OX, PPOX, orexin
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.87 pg/mL-120 pg/mL
Sensitivity	0.47 pg/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	Metabolism
Gene Names	HCRT
Tag Info	quantitative
Protein Description	Sandwich
Description	This Dog HCRT ELISA Kit was designed for the quantitative measurement of Dog HCRT protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.87 pg/mL-120 pg/mL and the sensitivity is 0.47 pg/mL.
Target Details	This gene encodes a hypothalamic neuropeptide precusor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors HCRTR1 and HCRTR2, function in the regulation of sleep and arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis.
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





Linearity

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

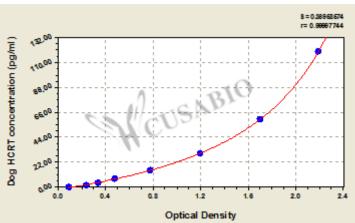
?	Sample Serum(n=	
1:1	Average %	103
	Range %	96-107
1:2	Average %	101
	Range %	98-105
1:4	Average %	94
	Range %	89-98
1:8	Average %	103
	Range %	96-107

Recovery

The recovery of dog HCRT 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	89-95
EDTA plasma (n=4)	103	98-107

Typical



These standard curves

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













pg/ml	OD1	OD2	Average	Corrected
120	2.176	2.234	2.205	2.101
60	1.659	1.765	1.712	1.608
30	1.193	1.223	1.208	1.104
15	0.793	0.776	0.785	0.681
7.5	0.492	0.483	0.488	0.384
3.75	0.341	0.356	0.349	0.245
1.87	0.242	0.249	0.246	0.142
0	0.103	0.104	0.104	?

Msds

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