



Human Mu-type opioid receptor(OPRM1) ELISA kit

Product Code	CSB-EL016361HU
Abbreviation	OPRM1
Target Name	opioid receptor, mu 1
Uniprot No.	P35372
Alias	KIAA0403, LMOR, MOR, MOR1, OPRM, mu opiate receptor
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	Neuroscience
Gene Names	OPRM1
Tag Info	quantitative
Protein Description	Sandwich

Description

The human Mu-type opioid receptor (OPRM1) Elisa kit is suitable for quantitatively measuring human OPRM1 in serum, plasma, cell lysates, or tissue homogenates. This assay employs the sandwich enzyme immunoassay technique and enzyme-substrate chromogenic reaction. The color develops positively to the amount of OPRM1 in samples. The color development is stopped and the intensity of the color is measured. This kit displays many advantages, including high sensitivity, strong specificity, good linearity, high precision and recovery, and lot-to-lot consistency.

OPRM1 is the primary site of action for the most commonly used opioids including morphine, heroin, and fentanyl and regulates reward derived from both drug use and natural experiences, including social interaction, through actions in the nucleus accumbens. Dysregulation of OPRM1 signaling may contribute to deficits in social interaction and other motivated behaviors that are a hallmark of neuropsychiatric disorders.

Product Precision	Intra-assay Precision (Precision within an assay): CV%<8%
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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 human OPRM1 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 %	96
	Range %	85-101
1:2	Average %	95
	Range %	89-99
1:4	Average %	93
	Range %	88-103
1:8	Average %	96
	Range %	83-105

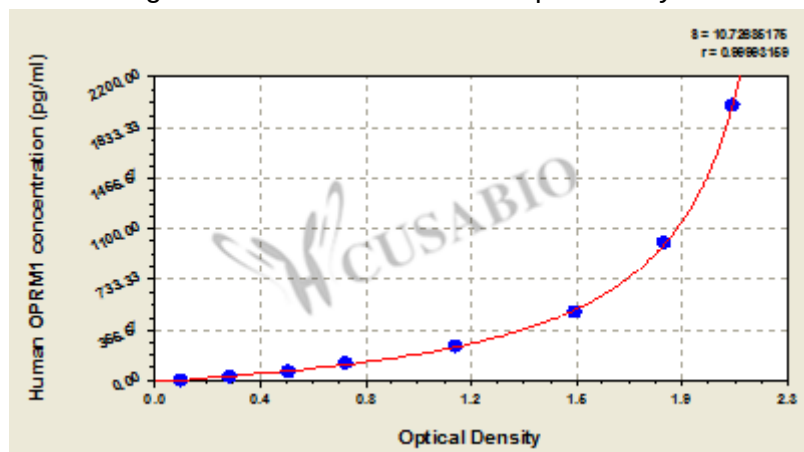
Recovery

The recovery of human OPRM1 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)	92	85-99
EDTA plasma (n=4)	98	95-106

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
2000	2.123	2.091	2.107	2.003
1000	1.869	1.853	1.861	1.757
500	1.541	1.528	1.535	1.431
250	1.112	1.096	1.104	1.000
125	0.708	0.695	0.702	0.598
62.5	0.500	0.487	0.494	0.390
31.25	0.289	0.279	0.284	0.180
0	0.104	0.103	0.104	

**Msd**s

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