



Rat Serotonin Receptor 2A/5-hydroxytryptamine Receptor 2A(5-HT-2A)ELISA Kit

Product Code	CSB-E14956r
Abbreviation	HTR2A
Target Name	5-hydroxytryptamine (serotonin) receptor 2A
Uniprot No.	P14842
Alias	RP11-147L20.2, 5-HT2A, HTR2, 5-HT2 receptor 5-hydroxytryptamine receptor 2A serotonin 5-HT-2A receptor
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 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	Htr2a
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat HTR2A ELISA Kit was designed for the quantitative measurement of Rat HTR2A protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.
Target Details	This gene encodes one of the receptors for serotonin, a neurotransmitter with many roles. Mutations in this gene are associated with susceptibility to schizophrenia and obsessive-compulsive disorder, and are also associated with response to the antidepressant citalopram in patients with major depressive disorder (MDD). MDD patients who also have a mutation in intron 2 of this gene show a significantly reduced response to citalopram as this antidepressant downregulates expression of this gene. Multiple transcript variants encoding different isoforms have been found for this gene.
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 5-HT-2A 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 %	87
	Range %	82-91
1:2	Average %	104
	Range %	98-110
1:4	Average %	90
	Range %	85-94
1:8	Average %	84
	Range %	80-88

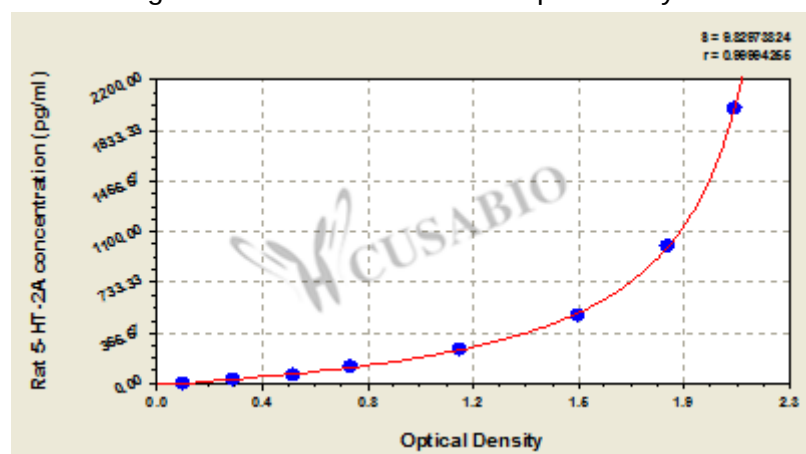
Recovery

The recovery of rat 5-HT-2A 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)	89	84-96
EDTA plasma (n=4)	95	90-103

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	2.121	2.095	2.108	2.004
1000	1.874	1.858	1.866	1.762
500	1.546	1.533	1.540	1.436
250	1.120	1.102	1.111	1.007
125	0.707	0.718	0.713	0.609
62.5	0.498	0.516	0.507	0.403
31.25	0.295	0.280	0.288	0.184
0	0.104	0.103	0.104	

**Msds**

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