



Mouse Glutamate [NMDA] receptor subunit epsilon-2(GRIN2B) ELISA kit

Product Code	CSB-EL009913MO
Protein Biological Process 2	Anion transport
Abbreviation	GRIN2B
Protein Biological Process 1	Transport
Target Name	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
Uniprot No.	Q01097
Alias	MGC142178, MGC142180, NMDAR2B, NR2B, hNR3, N-methyl-D-aspartate receptor subunit 2B glutamate receptor subunit epsilon-2
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Ion transport
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	Signal Transduction
Gene Names	Grin2b
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse GRIN2B ELISA Kit was designed for the quantitative measurement of Mouse GRIN2B 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	N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long-term



potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of three different subunits: NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The NR2 subunit acts as the agonist binding site for glutamate. This receptor is the predominant excitatory neurotransmitter receptor in the mammalian brain.

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 mouse GRIN2B 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)
	Average %	94
1:1	Range %	90-96
	Average %	96
1:2	Range %	92-100
	Average %	105
1:4	Range %	100-114
	Average %	89
1:8	Range %	85-94

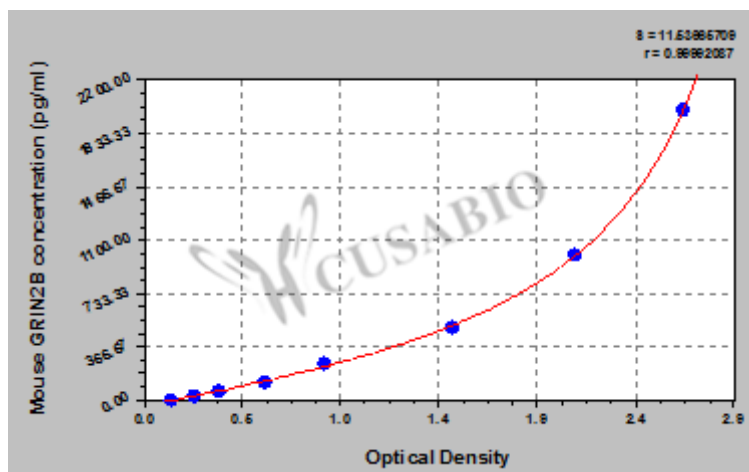
Recovery

The recovery of mouse GRIN2B 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)	96	92-100
EDTA plasma (n=4)	87	83-92

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	2.683	2.579	2.631	2.485
1000	2.159	2.052	2.106	1.960
500	1.494	1.521	1.508	1.362
250	0.916	0.869	0.893	0.747
125	0.587	0.607	0.597	0.451
62.5	0.373	0.383	0.378	0.232
31.25	0.265	0.255	0.260	0.114
0	0.149	0.142	0.146	?

Msds

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