

Mouse Glutamate Receptor, Ionotropic, N-Methyl-D-Aspartate 1 (GRIN1) ELISA Kit | GRIN1 elisa kit

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CATALOG # AAA68565	REACTIVITY Mouse
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PRODUCT SYNONYMS

Glutamate Receptor; Ionotropic; N-Methyl-D-Aspartate 1 (GRIN1); Mouse Glutamate Receptor; N-Methyl-D-Aspartate 1 (GRIN1) ELISA Kit; NMDA1; NMDAR1; NR1; Glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; GRIN1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of GRIN1. No significant cross-reactivity or interference between GRIN1 and analogues was observed.
Sequence Length	906
Samples	Tissue homogenates, cell lysates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	<0.122ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GRIN1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GRIN1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GRIN1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of GRIN1 in mouse tissue homogenates, cell lysates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GRIN1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to GRIN1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain GRIN1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of GRIN1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	294997257
NCBI GeneID	14810
NCBI Accession #	NP_001171127.1
NCBI GenBank Nucleotide #	NM_001177656.2
UniProt Accession #	P35438; Q8CFS4; A2AI15; A2AI18
Molecular Weight	99,423 Da
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 1 isoform 2
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, NMDA1 (zeta 1)
NCBI Official Symbol	Grin1
NCBI Official Synonym Symbols	NR1; GluN1; Nmdar; NMD-R1; NMDAR1; M100174; Rgsc174; GluRzeta1; GluRdelta1
NCBI Protein Information	glutamate receptor ionotropic, NMDA 1
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 1
UniProt Gene Name	Grin1
UniProt Synonym Gene Names	Glurz1; GluN1; NMD-R1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/glutamate-receptor-ionotropic-n-methyl-d-aspartate-1-grin1/68565>