

# Product Datasheet

## Glutamate Assay Kit (Colorimetric)

**KA1670**

Unit Size: 1 Kit

Store at -20C.

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**Publications: 11**

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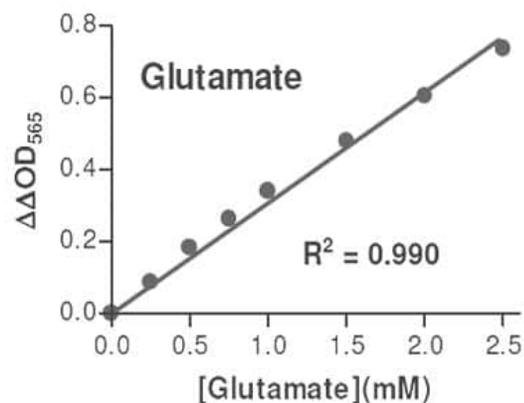


**KA1670****Glutamate Assay Kit (Colorimetric)**

<b>Product Information</b>	
<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at -20C.
<b>Product Description</b>	
<b>Description</b>	Quality control test: Standard Curve Glutamate Assay Kit is a quantitative colorimetric determination of glutamate at 565 nm.
<b>Species</b>	Human, Rat
<b>Kit Components</b>	Assay Buffer, NAD Solution, Enzyme A, Enzyme B, MTT Solution, Standard (100 mM Glutamate)
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Standard Curve Range</b>	0.25 to 2.5 mM
<b>Sensitivity</b>	50 uM
<b>Assay Type</b>	Colorimetric
<b>Suitable Sample Type</b>	Food Sample, Plasma, Serum, Tissue
<b>Sample Volume</b>	20 uL
<b>Product Application Details</b>	
<b>Applications</b>	ELISA, Functional, Quantification
<b>Recommended Dilutions</b>	ELISA, Functional, Quantification

**Images**

Glutamate Assay Kit (Colorimetric) [KA1670] - The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.



## Publications

Punita K, Koustav R, Meetu W et al. Fear memory is impaired in hypobaric hypoxia: Role of synaptic plasticity and neuro-modulators in limbic region. *Life Sci.* 2020-03-16 [PMID: 32188570]

Sengupta A, Das U, Manna K et al. An association study of severity of intellectual disability with peripheral biomarkers of disabled children in a rehabilitation home, Kolkata, India. *Sci Rep.* 2019-09-20 [PMID: 31541143]

Punita K, Meetu W, Garima C et al. Hypobaric hypoxia induced fear and extinction memory impairment and effect of Ginkgo biloba in its amelioration: Behavioral, neurochemical and molecular correlates. *Behav Brain Res.* 2020-03-16 [PMID: 32194184]

Wei Z, Jiandong H, Qingwei X et al. Glu-Urea-Lys Scaffold Functionalized Superparamagnetic Iron Oxide Nanoparticles Targeting PSMA for In Vivo Molecular MRI of Prostate Cancer. *Pharmaceutics.* 2022-09-26 [PMID: 36297485]

Kahtani M Effect of both selenium and biosynthesized nanoselenium particles on cadmium-induced neurotoxicity in albino rats. *Hum Exp Toxicol.* 2019-10-16 [PMID: 31619074]

Muller-Langle A, Lutz H, Hehlgans S et al. NMDA Receptor-Mediated Signaling Pathways Enhance Radiation Resistance, Survival and Migration in Glioblastoma Cells-A Potential Target for Adjuvant Radiotherapy. *Cancers (Basel).* 2019-04-09 [PMID: 30970642]

Ali SA, Zaitone SA, Dessouki A, Ali AA et al. Pregabalin affords retinal neuroprotection in diabetic rats: Suppression of retinal glutamate, microglia cell expression and apoptotic cell death. *Exp Eye Res.* 2019-04-17 [PMID: 31002823]

Shah SA, Amin FU, Khan M et al. Anthocyanins abrogate glutamate-induced AMPK activation, oxidative stress, neuroinflammation, and neurodegeneration in postnatal rat brain. *J Neuroinflammation* 2016-11-08 [PMID: 27821173]

Yuan W, Anderson KW, Li S, Edwards JL. Subsecond Absolute Quantitation of Amine Metabolites Using Isobaric Tags for Discovery of Pathway Activation in Mammalian Cells. *Anal Chem.* 2012-03-07 [PMID: 22401307]

Perez-Mato M, Ramos-Cabrer P, Sobrino T et al. Human recombinant glutamate oxaloacetate transaminase 1 (GOT1) supplemented with oxaloacetate induces a protective effect after cerebral ischemia. *Cell Death Dis.* 2014-01-09 [PMID: 24407245]

Shah SA, Yoon GH, Kim HO, Kim MO. Vitamin C Neuroprotection Against Dose-Dependent Glutamate-Induced Neurodegeneration in the Postnatal Brain. *Neurochem Res.* 2015-02-21 [PMID: 25701025]





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### **Products Related to KA1670**

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KA1909	Glutamate ELISA Kit (Colorimetric)
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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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