

# Datasheet for ABIN367080

# **AGE ELISA Kit**





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Quantity:	96 tests	
Target:	AGE	
Reactivity:	Human	
Method Type:	Sandwich ELISA	
Detection Range:	0.78-50 μg/mL	
Minimum Detection Limit:	0.78 μg/mL	
Application:	ELISA	
Product Details		
Purpose:	For the quantitative determination of endogenic human advanced glycation end products (AGEs) concentrations in serum, plasma, tissue homogenates.	
Sample Type:	Serum, Plasma, Tissue Homogenate	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This assay has high sensitivity and excellent specificity for detection of human AGEs.	
Cross-Reactivity (Details):	Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between the target antigen and all analogues for other species. Therefore, cross reaction may still exist.	
Sensitivity:	0.195 μg/mL	
Components:	Assay plate (12 × 8 coated Microwells)	

- · Standard (freeze dried)
- Biotin-antibody (100 × concentrate)
- HRP-avidin (100 × concentrate)
- · Biotin-antibody Diluent
- · HRP-avidin Diluent
- · Sample Diluent
- Wash Buffer (25 × concentrate)
- · TMB Substrate
- Stop Solution
- Adhesive Strip (for 96 wells)
- · Instruction manual

### **Target Details**

Target:	AGE	
Alternative Name:	advanced glycation end products (AGEs) (AGE Products)	
Target Type:	Chemical	

### **Application Details**

#### Application Notes:

- The supplier is only responsible for the kit itself, but not for the samples consumed during the assay. The user should calculate the possible amount of the samples used in the whole test. Please reserve sufficient samples in advance.
- Samples to be used within 5 days may be stored at 2-8°C, otherwise samples must be stored at -20°C (≤ 1 month) or -80°C (≤ 2 months) to avoid loss of bioactivity and contamination.
- · Grossly hemolyzed samples are not suitable for use in this assay.
- If the samples are not indicated in the manual, a preliminary experiment to determine the validity of the kit is necessary.
- Please predict the concentration before assaying. If values for these are not within the range
  of the standard curve, users must determine the optimal sample dilutions for their particular
  experiments.
- Tissue or cell extraction samples prepared by chemical lysis buffer may cause unexpected ELISA results due to the impacts of certain chemicals.
- Owing to the possibility of mismatching between antigens from another resource and antibodies used in this supplier's kits (e.g., antibody targets conformational epitope rather than linear epitope), some native or recombinant proteins from other manufacturers may not be recognized by this supplier's products.
- Influenced by factors including cell viability, cell number and cell sampling time, samples from cell culture supernatant may not be recognized by the kit.
- Fresh samples without long time storage are recommended for the test. Otherwise, protein degradation and denaturalization may occur in those samples and finally lead to wrong

	results.	
Comment:	Detection wavelength: 450 nm	
	Information on standard material:	
	Depending on the antigen to be detected, standards can be either native or recombinant	
	protein. The recombinant proteins are being expressed in CHO cells in most cases. Please	
	inquire for more information. The formulation of auxiliary material in the standard is considered	
	proprietary information, however it does not contain any poisonous substance. Proclin 300	
	(1:3000) is used as preservative.	
	Information on reagents:	
	In most cases the stop solution provided is 1 N H2SO4. The formulation of wash solution is	
	proprietary information. None of the components contain (sodium) azide, thimerosal, 2-	
	mercaptoethanol (2-ME) or any other poisonous materials. For the sandwich method kits, the	
	sample diluent, antibody diluent, enzyme diluent and standard all contain BSA.	
	Information on antibodies:	
	The antibodies provided in different kits vary in regards to clonality and host. Some antibodies	
	are affinity purified, some are Protein A	
Sample Volume:	100 μL	
Assay Time:	1 - 4.5 h	
Plate:	Pre-coated	
Protocol:	This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody	
	specific for AGEs has been pre-coated onto a microplate. Standards and samples are pipetted	
	into the wells and any AGEs present is bound by the immobilized antibody. After removing any	
	unbound substances, a biotin-conjugated antibody specific for AGEs is added to the wells. After	
	washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a	
	wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells	
	and color develops in proportion to the amount of AGEs bound in the initial step. The color	
	development is stopped and the intensity of the color is measured.	
Assay Precision:	Intra-assay precision (precision within an assay): Three samples of known concentration were	
	tested twenty times on one plate to assess precision.	
	Inter-assay precision (precision between assays): Three samples of known concentration were	

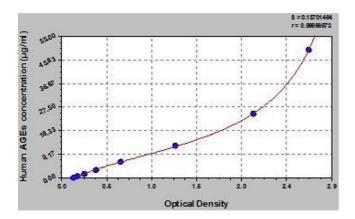
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tested in twenty assays to assess precision. • Intra-assay: CV% less than 8% Inter-assay: CV% less than 10% Restrictions: For Research Use only Handling Precaution of Use: The Stop Solution provided with this kit is an acid solution. Wear eye, hand, face and clothing protection when using this material. Handling Advice: • The kit should not be used beyond the expiration date on the kit label. • Do not mix or substitute reagents with those from other lots or sources. · If samples generate values higher than the highest standard, dilute the samples with Sample Diluent and repeat the assay. · Any variation in Sample Diluent, operator, pipetting technique, washing technique, incubation time/temperature and kit age can cause variation in binding. · This assay is designed to eliminate interference by soluble receptors, binding proteins and other factors present in biological samples. Until all factors have been tested in the Immunoassay, the possibility of interference cannot be excluded. 4 °C/-20 °C Storage: Storage Comment: For unopened kit: All the reagents should be kept according to the labels on vials. 6 months Expiry Date: **Publications** Product cited in: Huang, Sheng, Kang, Zhang, Wang, Li, Cheng, Guo, Li, Wang: "Central and peripheral blood pressures in relation to plasma advanced glycation end products in a Chinese population." in: Journal of human hypertension, (2015) (PubMed). Matsumoto, Matsumoto, Ogura, Shimazaki, Yamakawa, Yamamoto, Shimazu: "The clinical significance of circulating soluble RAGE in patients with severe sepsis." in: The journal of trauma and acute care surgery, Vol. 78, Issue 6, pp. 1086-94, (2015) (PubMed).

Cengiz, Dagdeviren, Kanawati, Çaypinar, Yesil, Ekin, Yasar: "Ischemia-modified albumin as an oxidative stress biomarker in early pregnancy loss." in: **The journal of maternal-fetal & neonatal medicine**, pp. 1-19, (2015) (PubMed).

Huang, Sheng, Liu, Li, Li, Wang: "Arterial stiffness and wave reflections in relation to plasma advanced glycation end products in a Chinese population." in: **American journal of hypertension**, Vol. 26, Issue 6, pp. 754-61, (2013) (PubMed).

### **Images**



#### **ELISA**

**Image 1.** Typical standard curve