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## Datasheet for ABIN6961896 Caspase 3 ELISA Kit

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#### Overview

Quantity:	96 tests
Target:	Caspase 3 (CASP3)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.31 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.31 ng/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay technique for the in vitro quantitative
	measurement in various sample types.
Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes Human CASP3 in samples. No Significant cross-reactivity or interference
	between Human CASP3 and analogues was observed.
Sensitivity:	0.19 ng/mL
Components:	• Pre-coated, ready to use 96-well strip plate, flat buttom
	Plate sealer for 96 wells
	Reference Standard
	Reference Standard & Sample Diluent

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- Biotinylated Detection Antibody (100 x concentrate)
- HRP Conjugate (100 x concentrate)
- Biotinylated Detection Antibody Diluent
- HRP Conjugate Diluent
- Substrate Reagent
- Stop Solution
- Wash Buffer (25 x concentrate)
- Instruction manual

## Target Details

Target:	Caspase 3 (CASP3)
Alternative Name:	Caspase 3 (CASP3 Products)
Background:	CPP32, CPP32B, SCA-1, Apoptain, Yama
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Sensory Perception of Sound, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Activated T Cell Proliferation

### Application Details

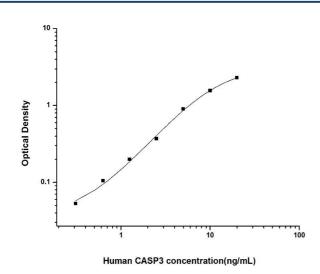
Sample Volume:	100 µL
Assay Time:	3.5 h
Plate:	Pre-coated
Protocol:	<ol> <li>Add 100 μL standard or sample to each well. Incubate for 90 min at 37 °C.</li> <li>Remove the liquid. Add 100 μL Biotinylated Detection Antibody. Incubate for 1 hour at 37 °C.</li> <li>Aspirate and wash 3 times.</li> <li>Add 100 μL HRP Conjugate. Incubate for 30 min at 37 °C.</li> <li>Aspirate and wash 5 times.</li> <li>Add 90 μL Substrate Reagent. Incubate for 15 min at 37 °C.</li> <li>Add 50 μL Stop Solution. Read at 450 nm immediately.</li> <li>Calculation of results.</li> </ol>
Reagent Preparation:	<ol> <li>Bring all reagents to room temperature (18~25 °C) before use. Follow the Microplate reader manual for set-up and preheat it for 15 min before OD measurement.</li> <li>Wash Buffer: Dilute 30 mL of Concentrated Wash Buffer with 720 mL of deionized or distilled water to prepare 750 mL of Wash Buffer.Note: if crystals have formed in the concentrate, warm it in a 40 °C water bath and mix it gently until the crystals have completely dissolved</li> <li>Standard working solution: Centrifuge the standard at 10,000xg for 1 min. Add 1.0 mL of Reference Standard &amp;Sample Diluent, let it stand for 10 min and invert it gently several times.</li> </ol>

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Storage Comment:	<ol> <li>For unopened kit: All reagents should be stored according to the labels on the vials, so they are stable up to 12 months after receipt of the kit. The Reference Standard, Biotinylated Detection Antibody, HRP Conjugate and the 96-well stripe plate should be stored at -20 °C upon receipt while the other reagents should be stored at 4 °C.</li> <li>For used kit: When the kit is used, the remaining reagents need to be stored according to the above storage condition. Besides, please return the unused wells to the foil pouch containing the desiccant pack, and zip-seal the foil pouch.</li> </ol>
Expiry Date:	12 months
Publications	
Product cited in:	Ma, Wang, He, Yu, Tong, Liu, Yang, Li, Pang, Qi: "Ethyl acetate extract of Caesalpinia sappan L.
	inhibited acute myeloid leukemia via ROS-mediated apoptosis and differentiation." in:
	Phytomedicine : international journal of phytotherapy and phytopharmacology, Vol. 68, pp.
	153142, (2020) (PubMed).
	Dwaich, Al-Amran, Al-Sheibani, Al-Aubaidy: "Melatonin effects on myocardial ischemia-
	reperfusion injury: Impact on the outcome in patients undergoing coronary artery bypass
	grafting surgery." in: International journal of cardiology, Vol. 221, pp. 977-86, (2017) (PubMed).

### Images



#### ELISA

Image 1. Typical standard curve