

## Caspase 3 (CASP3)ELISA Kit

- Citations>56
- Cumulative IF>160

Caspase-3 (CASP3), also known as cysteine protease 3, is a protease that can specifically cut poly-ADP ribose polymerase (PARP1) and acetyl-DEVD-7-amino-4-methyl coumarin (Ac-DEVD-AMC), leading to DNA cleavage to promote cell apoptosis. Caspase-3 usually exists in the form of pro-caspase-3 in organisms. When apoptotic cells began to occur, pro-caspase-3 was cut from Asp28-Ser29 and Asp175-Ser176 to form two subunits, P17 (29-175) and 110 (182-277), which then formed the active form of caspase-3. Caspase-3, as one of the most critical enzymes in apoptotic pathway, is closely related to the occurrence of cancer, aging and cardiovascular diseases.

### 1. Cloud-Clone CASP3 target related products

Target	Product No.	Product Name	Species
CASP3	SEA626Hu	Human ELISA Kit for Caspase 3 (CASP3)	Human
	SEA626Mu	Mouse ELISA Kit for Caspase 3 (CASP3)	Mouse
	SEA626Ra	Rat ELISA Kit for Caspase 3 (CASP3)	Rat
	SEA626Rb	Rabbit ELISA Kit for Caspase 3 (CASP3)	Rabbit
	SEA626Bo	Bovine ELISA Kit for Caspase 3 (CASP3)	Bovine

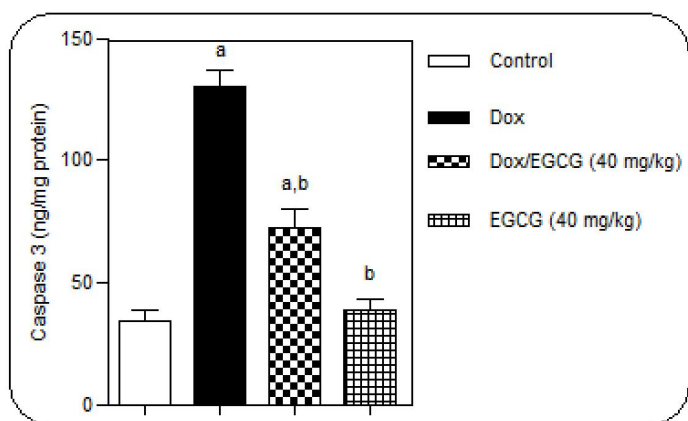
### 2. Excellent Citations of CASP3 target related products (Excerpt)

Product No.	Species	Journal	IF	Pubmed ID	Institute
SEA626Ra	Mouse	Molecular Neurobiology	5.397	25502462	Department of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University
SEA626Mu	Mouse	Oncotarget	5.168	27708245	Institute of Radiation Biology, Helmholtz Zentrum München, German Research Center for Environmental Health GmbH
SEA626Ra	Mouse	Cellular Physiology and Biochemistry	5.104	28942443	Department of Physiology, Faculty of Medicine for Girls (Cairo), Al-Azhar University
SEA626Ra	Mouse	Biochemical Pharmacology	5.091	25701654	Department of Pharmacology & Toxicology, Faculty of Pharmacy, Egyptian Russian University
SEA626Mu	Mouse	Oncotarget	5.008	27144524	Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense M, Denmark.
SEA626Ra	Mouse	Neuropharmacology	4.936	25446674	Department of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University
SEA626Ra	Mouse	Frontiers in Pharmacology	4.4	28553224	State Key Laboratory of Applied Microbiology Southern China
SEA626Ra	Mouse	International Journal of Biological Sciences	3.982	21697998	Laboratory of Experimental Embryology, Zoology Department, Mansoura University, Egypt & El-Kuwait
SEA626Ra	Mouse	Toxicology and Applied Pharmacology	3.847	25542992	Department of Pharmacology and Toxicology, Faculty of Pharmacy, Misr University for Science and Technology (MUST), 6th of October City, Giza, Egypt
SEA626Ra	Mouse	Toxicology and Applied Pharmacology	3.791	27687055	Department of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University, Cairo, Egypt

Groups	Caspase-9 (ng/g tissue)	Caspase-8 (ng/g tissue)	Caspase-3 (ng/g tissue)
Control	6.66±0.49	4.79±0.43	7.61±0.45
Rotenone	24.14±0.84*	17.22±0.69*	36.32±1.50*
UDCA	12.72±0.57*,**	9.02±0.25*,**	16.61±0.63*,**

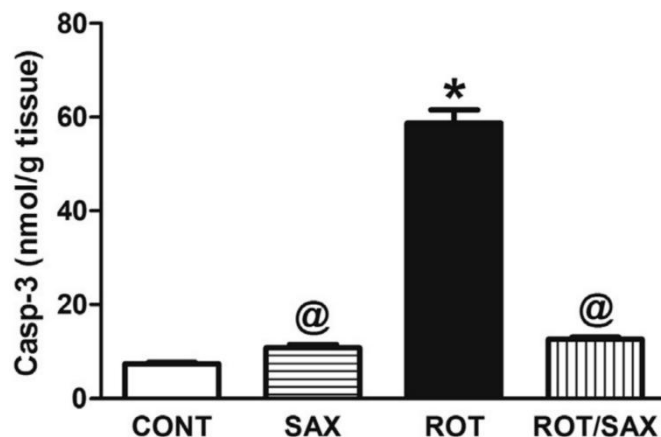
**Figure. Effects of UDCA on rotenone-induced alterations in striatal contents of caspase-9, caspase-8, and caspase-3 in rats. (N. F. Abdelkader H. A. Salem, 2014)**

(Product No.: SEA626Ra Sample type: serum)



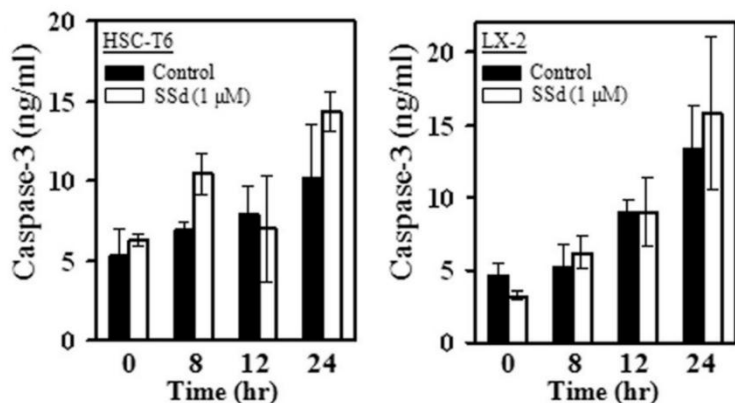
**Figure. Effect of pretreatment with 40 mg/kg EGCG on caspase 3 levels released during DOXinduced cardiotoxicity in rats. (Saeed NM, 2015)**

(Product No.: SEA626Ra Sample type: serum)



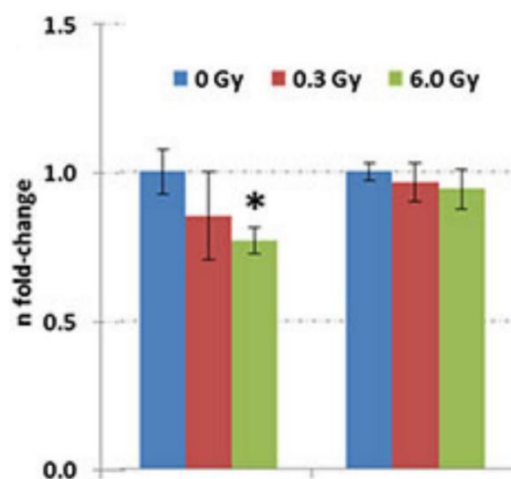
**Figure. . Effect of saxagliptin (SAX) on striatal caspase (Casp)-3 in rotenone (ROT) induced Parkinson disease in rats. (Noha N. Nassar, 2015)**

(Product No.: SEA626Ra Sample type: serum)



**Figure. The protein expression level of caspase-3 and caspase-9 was also detected by ELISA kits. (Ming-Feng Chen, 2016)**

(Product No.: SEA626Hu Sample type: cell supernatant)



**Figure. The levels of cAMP and activated caspase3 measured by ELISA. (Soile Tapio , 2016)**

(Product No.: SEA626Mu Sample type: cell supernatant)

### 3.Citation statistics of CASP3 target related products (Excerpt)

Title	Journal	Product No.
Saikosaponin dinduces cell death through caspase-3-dependent, caspase-3-independent andmitochondrial pathways in mammalian hepatic stellate	BMC Cancer	SEA626Hu

cells.

Saikosaponin a Induces Apoptosis through Mitochondria-Dependent Pathway in Hepatic Stellate Cells	American Journal Of Chinese Medicine	SEA626Hu
Attenuation of renal ischemia/reperfusion injury by açai extract preconditioning in a rat model	Life Sciences	SEA626Hu
Hydrogen sulfide attenuates doxorubicin-induced cardiotoxicity by inhibiting the expression of peroxiredoxin III in H9c2 cells	Molecular Medicine Reports	SEA626Hu
Hepatoprotective Activities of the Methanol Extract of Angelica shikokiana and Isoeopxypteryxin against Hepatocellular Carcinoma	Indian Journal of Pharmaceutical Sciences	SEA626Hu
Chronic low-dose-rate ionising radiation affects the hippocampal phosphoproteome in the ApoE <sup>-/-</sup> alzheimer mouse model	Oncotarget	SEA626Mu
An integrated proteomics approach shows synaptic plasticity changes in an APP/PS1 Alzheimers mouse model	Oncotarget	SEA626Mu
Inhibition of small HA fragment activity and stimulation of A2A adenosine receptor pathway limit apoptosis and reduce cartilage damage in experimental arthritis	Histochem Cell Biol	SEA626Mu
The heat shock protein 90 inhibitor, 17-AAG, attenuates thioacetamide induced liver fibrosis in mice	Pharmacological Reports	SEA626Mu
Vitamin D ameliorates hepatic ischemic/reperfusion injury in rats	Journal of Physiology and Biochemistry	SEA626Mu
Anti-oxidative, anti-secretory and anti-inflammatory activities of the extract from the root bark of Lycium chinense (Cortex Lycii) against gastric ulcer in mice.	Journal of Natural Medicines	SEA626Mu
Protective effects of apigenin and myricetin against cisplatin-induced nephrotoxicity in mice.	pharmaceutical biology	SEA626Mu
Anti-oxidative, anti-secretory and anti-inflammatory activities of the extract from the root bark of Lycium chinense (Cortex Lycii) against gastric ulcer in mice	Journal of Natural Medicines	SEA626Mu
Tectorigenin attenuates the MPP <sup>+</sup> induced SH- SY5Y cell damage, indicating a potential beneficial role in Parkinson's disease by oxidative stress inhibition	Experimental and Therapeutic Medicine	SEA626Mu
Anti-oxidative, anti-secretory and anti-inflammatory activities of the extract from the root bark of Lycium chinense (Cortex Lycii) against gastric ulcer in mice	Journal of Natural Medicines	SEA626Mu
Tectorigenin attenuates the MPP <sup>+</sup> induced SH- SY5Y cell damage, indicating a potential beneficial role in Parkinson's disease by oxidative stress inhibition	Experimental and Therapeutic Medicine	SEA626Mu
Ursodeoxycholic Acid Ameliorates Apoptotic Cascade in the Rotenone Model of Parkinson's Disease: Modulation of Mitochondrial Perturbations	Molecular Neurobiology	SEA626Ra
A Novel Role of SIRT1/ FGF-21 in Taurine Protection Against Cafeteria Diet-Induced Steatohepatitis in Rats	Cellular Physiology and Biochemistry	SEA626Ra
Epigallocatechin-3-gallate pretreatment attenuates doxorubicin-induced cardiotoxicity in rats: A mechanistic study	Biochemical Pharmacology	SEA626Ra
Saxagliptin: A novel antiparkinsonian approach	Neuropharmacology	SEA626Ra
Protective Effects of Morus alba Leaves Extract on Ocular Functions of Pups from Diabetic and Hypercholesterolemic Mother Rats	International Journal of Biological Sciences	SEA626Ra
Amelioration of nandrolone decanoate-induced testicular and sperm toxicity in rats by taurine: Effects on steroidogenesis, redox and inflammatory cascades, and intrinsic apoptotic pathway	Toxicology and Applied Pharmacology	SEA626Ra
Dapoxetine attenuates testosterone-induced prostatic hyperplasia in rats by the regulation of inflammatory and apoptotic proteins	Toxicology and Applied Pharmacology	SEA626Ra
Chrysin attenuates testosterone-induced benign prostate hyperplasia in rats	Food and Chemical Toxicology	SEA626Ra
A polysaccharide (PNPA) from Pleurotus nebrodensis ameliorates hepatic ischemic/reperfusion (I/R) injury in rats	International Journal of Biological Macromolecules	SEA626Ra
Modulatory effect of silymarin on nuclear factor-erythroid-2-related factor 2 regulated redox status, nuclear factor-κB mediated inflammation and apoptosis in experimental gastric ulcer	Chemico-Biological Interactions	SEA626Ra

Antidiabetic Effect of Galantamine: Novel Effect for a Known Centrally Acting Drug	PLOS ONE	SEA626Ra
BDNF-TrkB Pathway Mediates Neuroprotection of Hydrogen Sulfide against Formaldehyde-Induced Toxicity to PC12 Cells	PLOS ONE	SEA626Ra
The combined effect of metformin and L-cysteine on inflammation, oxidative stress and insulin resistance in streptozotocin-induced type 2 diabetes in rats	European journal of pharmacology	SEA626Ra
Neuroprotective effects of rosuvastatin against traumatic spinal cord injury in rats	European Journal of Pharmacology	SEA626Ra
Geraniol ameliorates TNBS-induced colitis: Involvement of Wnt/ $\beta$ -catenin, p38MAPK, NF $\kappa$ B, and PPAR $\gamma$ signaling pathways	Life Sciences	SEA626Ra
Attenuation of renal ischemia/reperfusion injury by açai extract preconditioning in a rat model	Life Sciences	SEA626Ra
Pomegranate extract protects against cerebral ischemia/reperfusion injury and preserves brain DNA integrity in rats	Life Sciences	SEA626Ra
Crocin protects against doxorubicin-induced myocardial toxicity in rats through down-regulation of inflammatory and apoptotic pathways	Chemico-Biological Interactions	SEA626Ra
Arecoline Induces Neurotoxicity to PC12 Cells: Involvement in ER Stress and Disturbance of Endogenous H <sub>2</sub> S Generation.	Neurochemical research	SEA626Ra
Vitamin D ameliorates hepatic ischemic/reperfusion injury in rats	Journal of Physiology and Biochemistry	SEA626Ra
Neuroprotective effects of Ganoderma lucidum polysaccharides against traumatic spinal cord injury in rats	Injury	SEA626Ra
Apoptotic effects of dipyrido [3,2-a:2',3'-c] phenazine (dppz) Au(III) complex against diethylnitrosamine/phenobarbital induced experimental hepatocarcinogenesis in rats	Molecular Biology Reports	SEA626Ra
Correlation of In Vivo and In Vitro Assay Results for Assessment of Free Radical Scavenging Activity of Green Tea Nutraceuticals	Journal of Food Science	SEA626Ra
Neuroprotective effects of atomoxetine against traumatic spinal cord injury in rats	Iranian Journal of Basic Medical Sciences	SEA626Ra
Apoptotic effects of dipyrido [3,2-a:2',3'-c] phenazine (dppz) Au(III) complex against diethylnitrosamine/phenobarbital induced experimental hepatocarcinogenesis in rats	Molecular Biology Reports	SEA626Ra
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Neuroprotective effects of atomoxetine against traumatic spinal cord injury in rats	Iranian Journal of Basic Medical Sciences	SEA626Ra
The hepatocurative effects of Cynara scolymus L. leaf extract on carbon tetrachloride-induced oxidative stress and hepatic injury in rats	Springerplus.	SEA626Ra
Docking Studies and Biological Evaluation of a Potential $\beta$ -Secretase Inhibitor of 3-Hydroxyhericenone F from Hericium erinaceus.	Frontiers in Pharmacology	SEA626Ra

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## Cloud-Clone Corp.

23603 W. Fernhurst Dr., Unit 2201, Katy, TX 77494, USA  
 Fax: 001-832-538-0088 | Email: [mail@cloud-clone.us](mailto:mail@cloud-clone.us)

Tel: 001-832-538-0970 | Toll free: 888-960-7402(In The USA)  
 Web: [www.cloud-clone.com/us](http://www.cloud-clone.com/us) [www.uscnk.cn](http://www.uscnk.cn)