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Datasheet for ABIN7505516

# Caspase 3 Protein (CASP3) (AA 29-175) (His tag)



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Quantity:	100 μg
Target:	Caspase 3 (CASP3)
Protein Characteristics:	AA 29-175
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Caspase 3 protein is labelled with His tag.

## **Product Details**

Sequence:	Ser 29-Asp 175
Characteristics:	A DNA sequence encoding the Rat CASP3 protein (P55213) (Ser 29-Asp 175) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

# Target Details

Target:	Caspase 3 (CASP3)
Alternative Name:	CASP3 (CASP3 Products)
Background:	Abbreviation: CASP3
	Target Synonym: CASP-3,CASP3,CASP3,Casp3a,Caspase 3,Caspase 3,Casp3,Cpp32
	Background: Involved in the activation cascade of caspases responsible for apoptosis
	execution. At the onset of apoptosis, it proteolytically cleaves poly(ADP-ribose) polymerase

PARP1 at a '216-Asp-|-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. Triggers cell adhesion in sympathetic neurons through RET cleavage .Cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes .Cleaves and inhibits serine/threonine-protein kinase AKT1 in response to oxidative stress. Acts as an inhibitor of type I interferon production during virus-induced apoptosis by mediating cleavage of antiviral proteins CGAS, IRF3 and MAVS, thereby preventing cytokine overproduction. Also involved in pyroptosis by mediating cleavage and activation of gasdermin-E (GSDME).Cleaves XRCC4 and phospholipid scramblase proteins XKR4, XKR8 and XKR9, leading to promote phosphatidylserine exposure on apoptotic cell surface.

Molecular Weight:

Calculated MW: 16.06 kDa

Observed MW: 20 kDa

UniProt:

P55213

Pathways:

Apoptosis, Caspase Cascade in Apoptosis, Sensory Perception of Sound, ER-Nucleus Signaling,

Positive Regulation of Endopeptidase Activity, Activated T Cell Proliferation

#### **Application Details**

Restrictions:

For Research Use only

### Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4.  Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.  Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months