

Datasheet for ABIN7194660
Caspase 7 Protein (His tag)



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Overview

Quantity:	20 µg
Target:	Caspase 7 (CASP7)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Caspase 7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CASP7/caspase 7 Protein (His Tag)
Sequence:	Met 1-Gln 303
Characteristics:	A DNA sequence encoding the human CASP7 (P55210-1) (Met 1-Gln 303) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	Caspase 7 (CASP7)
Alternative Name:	CASP7/caspase 7 (CASP7 Products)
Background:	Background: Caspase 7, also known as caspase-7 and MCH3, belongs to the cysteine-aspartic acid protease (caspase) family. Caspases play a role in the signal transduction pathways of apoptosis, necrosis and inflammation. There are two major classes of caspases: initiators and effectors. The initiator isoforms (caspases-1,-4,-5,-8,-9,-10,-11,-12) are activated by, and interact

Target Details

with, upstream adaptor molecules through protein-protein interaction domains known as CARD and DED. Effector caspases (-3,-6,-7) are responsible for cleaving downstream substrates and are sometimes referred to as the executioner caspases. Caspase 7 exists in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. Caspase 7 cannot be detected in the brain. Caspase 7 functions in the activation cascade of caspases responsible for apoptosis execution. It cleaves and activates sterol regulatory element binding proteins (SREBPs). It proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp- -Gly- 217' bond. Overexpression promotes programmed cell death.

Synonym: CASP-7,CMH-1,ICE-LAP3,LICE2,MCH3

Molecular Weight: 35kDa

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM HEPES, 100 mM NaCl, 1 mM EDTA, 0.10 % Sucrose, 0.1 % chaps, pH 7.5

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.