Recombinant Human Caspase-7/CASP7 Protein

Catalog No.: RP03142 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	840	P55210-1

Tags C-His

Synonyms

CASP7; MCH3;Caspase-7; CASP-7; EC:3.4.22.60; Apoptotic protease Mch-3; CMH-1; ICE-like apoptotic protease 3; ICE-LAP3; Cleaved into: Caspase-7 subunit p20; Caspase-7 subunit p11

Product Information

Source	Purification	
E. coli	≥ 90 % as	
	determined by SDS-	
	PAGE.	

Calculated MW	Observed MW
35kDa	20, 11 kDa

Endotoxin

< 0.01 EU/µg of the protein by LAL method

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Caspase-7/CASP7 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 isoformsare activated by, and interact with, upstream adaptor molecules through protein-protein interaction domains known as CARD and DED. Effector caspases 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, 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.

Basic Information

Description

Recombinant Human Caspase-7/CASP7 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Met1-Gln303) of Human Caspase-7/CASP7(Accession #NP_001218.1) fused with a His tag at the C-terminus.

Bio-Activity

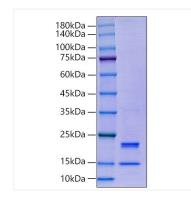
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^\circ C$ for 3 months, at 2-8 $^\circ C$ for up to 1 week.

Avoid repeated freeze/thaw cycles.





Recombinant Human Caspase-7/CASP7 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.