

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
<i>E. coli</i>	> 90% 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 stabilizer (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 isoforms are 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

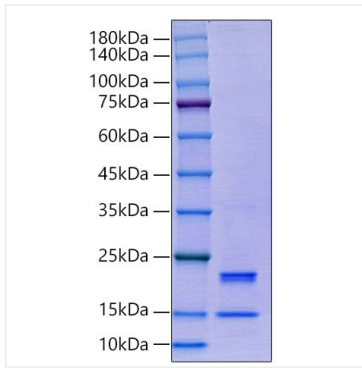
Storage

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°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



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