Recombinant Human Caspase-7/CASP7 Protein

Catalog No.: RP03142

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Sequence Information

Species	Gene ID
Human	840
Swiss Prot	**Tags**
P55210-1	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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

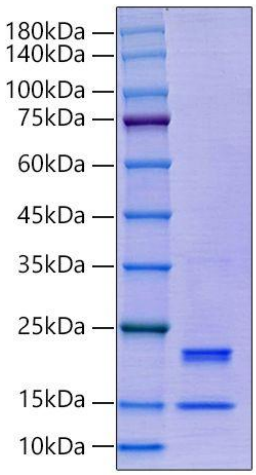
For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



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