

# Caspase 3 (163 - 175)

Synthetic Peptide Catalog # SP2180b

# **Specification**

# Caspase 3 (163 - 175) - Product Information

Primary Accession Other Accession Sequence

Q08DY9 Q8MKI5, Q5IS54, P42574, Q60431, P70677 NH2-CRGTELDCGIETD-COOH

# Caspase 3 (163 - 175) - Additional Information

Gene ID 408016

#### **Other Names**

Caspase-3, CASP-3, Caspase-3 subunit p17, Caspase-3 subunit p12, CASP3

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

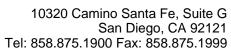
# Caspase 3 (163 - 175) - Protein Information

### Name CASP3

#### **Function**

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 (CASP6, CASP7 and CASP9, respectively). Cleaves and inactivates interleukin-18 (IL18) (By similarity). Triggers cell adhesion in sympathetic neurons through RET cleavage (By similarity). Cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes (By similarity). 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) (By similarity). Cleaves XRCC4 and phospholipid scramblase proteins XKR4, XKR8 and XKR9, leading to promote phosphatidylserine exposure on apoptotic cell surface (By similarity).

# **Cellular Location**





 $Cytoplasm \ \{ECO: 0000250 | UniProtKB: P42574\}. \\$ 

Caspase 3 (163 - 175) - Images