

Product datasheet

Caspase-9 peptide ab171520

Overview

Product name Caspase-9 peptide

Description

Nature Synthetic

Specifications

Our [Abpromise guarantee](#) covers the use of **ab171520** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Blocking - Blocking peptide for Anti-Caspase-9 antibody ([ab52298](#))

Purity 70 - 90% by HPLC.

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
 pH: 8.50
 Constituents: 10% DMSO, 0.6% Tris, 0.15% EDTA, 0.1% BSA

General Info

Function Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates caspase-3. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP). Isoform 2 lacks activity is an dominant-negative inhibitor of caspase-9.

Tissue specificity Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.

Sequence similarities Belongs to the peptidase C14A family.
 Contains 1 CARD domain.

Developmental stage Expressed at low levels in fetal heart, at moderate levels in neonate heart, and at high levels in adult heart.

Post-translational modifications

Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits. Caspase-8 and -10 can also be involved in these processing events.

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