

Recombinant human Caspase-9 protein ab52203

[2 References](#) [1 图像](#)

描述

产品名称	重组人Caspase-9蛋白
生物活性	Specific activity: 400 units/mg. Unit definition: One unit of the recombinant caspase-9 is the enzyme activity that cleaves 1 nmol of the caspase substrate LEHD-pNA (pNA: pnitroanaline) per hour at 37°C in a reaction solution containing 50 mM Hepes, pH 7.2, 50 mM NaCl, 0.1% Chaps, 10 mM EDTA, 5% Glycerol, and 10 mM DTT.
纯度	> 90 % SDS-PAGE.
表达系统	Escherichia coli
Accession	<u>P55211</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human

技术指标

Our **Abpromise guarantee** covers the use of **ab52203** in the following tested applications.

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

应用	SDS-PAGE
形式	Lyophilized
补充说明	This product is manufactured by BioVision, an Abcam company and was previously called 1089 Caspase-9, human recombinant. 1089-25 is the same size as the 25 unit size of ab52203. UNIT DEFINITION: One unit of the recombinant Caspase 9 is the enzyme activity that cleaves 1 nmol of the caspase substrate LEHD-pNA (pNA: pnitroanaline) per hour at 37°C in a reaction solution containing 50 mM Hepes, pH 7.2, 50 mM NaCl, 0.1% Chaps, 10 mM EDTA, 5% Glycerol, and 10 mM DTT.

制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
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Constituents: PBS, 15% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

复溶

Reconstitute to 1 unit per μl in PBS containing 15% glycerol. Following reconstitution in PBS, the enzyme should be aliquoted and immediately stored at -70°C .

常规信息

功能

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 a dominant-negative inhibitor of caspase-9.

组织特异性

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.

序列相似性

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

发展阶段

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

翻译后修饰

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.

图片



Lane 1: Recombinant caspase 9 protein (Active) ab52203- 100 ng.
Lane 2: BSA- 400 ng. Lane 3: BSA- 200 ng. Lane 4: BSA- 100 ng.
Lane 5: BSA- 50 ng. Lane 6: BSA- 25 ng. SYPRO Ruby protein stain. Predicted band size: 46 kDa (precursor protein) and 35 kDa (p35 subunit) Observed Bands: 20 kDa and 11 kDa.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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