

Product datasheet

Recombinant human Caspase-9 protein ab52203

2 References 1 Image

Description

Product name	Recombinant human Caspase-9 protein
Biological activity	SPECIFIC ACTIVITY: 400 units/mg
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P55211
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Specifications

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.

Applications	SDS-PAGE
Form	Lyophilized
Additional notes	UNIT DEFINITION: One unit of the recombinant Caspase 9 is the enzyme activity that cleaves 1 nmol of the caspase substrate LEHD-pNA (pNA: pnitroaniline) 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.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Constituents: PBS, 15% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	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.

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.

Images



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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