

Product datasheet

Recombinant human Caspase-9 protein (Tagged) ab198061

[2 References](#) [2 Images](#)

Description

Product name	Recombinant human Caspase-9 protein (Tagged)	
Biological activity	<p>Specific Activity: 0.11 pmol/min/μg.</p> <p>Assay conditions: 50 mM HEPES, pH 7.2, 50 mM NaCl, 10 mM EDTA, 0.1% Chaps, 5% glycerol, 10 mM DTT, and 10 μM Caspase 9 substrate. Incubate for 30 minutes at room temperature. Fluorescence intensity is measured at exc380/em505 nm.</p>	
Purity	>= 56 % SDS-PAGE.	
Expression system	Escherichia coli	
Accession	<u>P55211</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<pre> MDEADRLLRRCRLRLVEELQVDQLWDALLSRELF RPHM IEDIQRAGSGS RRDQARQLIIDLETRGSQALPLFISCLEDTGQDMLASFLRT NRQAAKLSK PTLENLTPVLRPEIRKPEVLRPETPRPVDIGSGGF GDVG ALES LRGNAD LAYILSMEPCGHCL IINN VNF CRESGLRTRTGSNIDCEKLR R RFSS LHFM VEVKGDLTAKKMVLALLELAQQDHGALDCCVVVILSHGC QASHLQFPGAV YGTDGC PVSVEKIMNIFNGTSCPSLGGKPKLFFIQACGGE QKDHGFEVAS TSPEDESPGSNPEPDATPFQEGLRFTDQLDAISSLPTPSD IFVSYSTFPG FVSWRDPKSGSWYVETLDDIFEQWAHSEDLQSLLLRVAN AVSVKGIYQM PGC FNFLRKKLFFKTSHHHHHH </pre>	
Amino acids	1 to 416	
Tags	His tag C-Terminus	

Additional sequence information Procaspase- 9 is autocleaved between the prodomain and large protease subunit (p35). The cleavage product, contains both the large (p35) and small (p10 [His-tag]) protease subunits. MWt: 35 & 10 kDa

Specifications

Our **Abpromise guarantee** covers the use of **ab198061** 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 Functional Studies
Form	Liquid

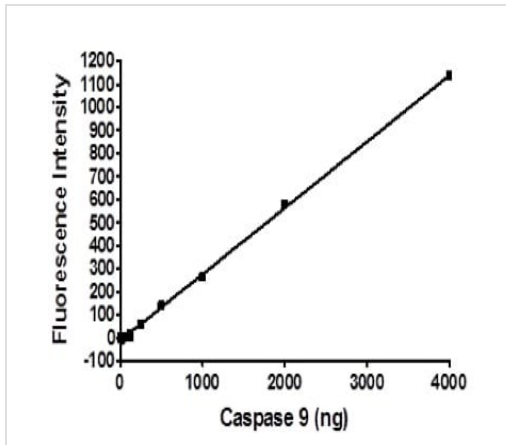
Preparation and Storage

Stability and Storage Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
pH: 8.00
Preservative: 0.54% Imidazole
Constituents: 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 20% Glycerol (glycerin, glycerine), 0.02% Potassium chloride, 0.64% Sodium chloride, 0.61% Tris
This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

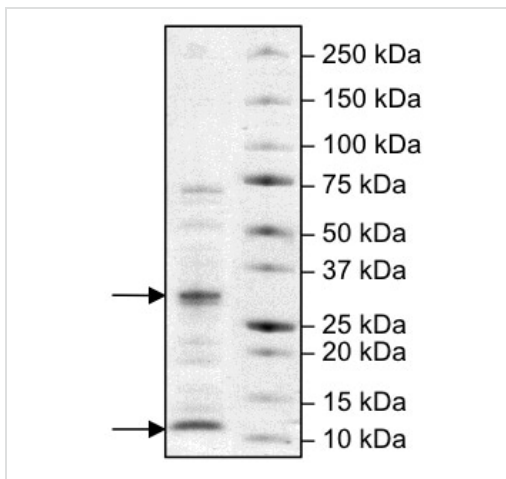
Function	Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates caspase-3. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP). Isoform 2 lacks activity is an dominant-negative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



Activity assay using **ab198122**.

Functional Studies - Recombinant human Caspase-9 protein (Tagged) (ab198061)



4-20% SDS-PAGE analysis of 2.5 μ g ab198061 with Coomassie staining.

SDS-PAGE - Recombinant human Caspase-9 protein (Tagged) (ab198061)

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

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