

Recombinant Human CASP9 Protein, 1-416, C-His tagged

Cat. No. CASP9-35H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP9 Protein (1-416) with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-416(end)
Description	<p>This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants.</p>
Form	Aqueous buffer solution
Bio-activity	0.11 pmol/min/μg
Purity	≥ 90%

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Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Notes	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Usage	50 mM HEPES, pH 7.2, 50 mM NaCl, 10 mM EDTA, 0.1% Chaps, 5% glycerol, 10 mM DTT, and 10 μ M Caspase 9 substrate. Incubate for 2 hours at room temperature. Fluorescence intensity is measured at exc380/em505 nm.
Stability	At least 6 months at -80 centigrade.
Storage	At -80 centigrade (dry ice)
Storage Buffer	40 mM Tris-HCl pH 8.0, 110 mM NaCl, 2.2 mM KCl, 20% glycerol, 3 mM DTT, 65 mM imidazole
References	<ol style="list-style-type: none"> Guerrero AD., et al., J Clin Cell Immunol.9;3(3) (2012) Luo W., et al., Int J Biol Macromol. S0141-8130(13)00222-5. (2013)

GENE INFORMATION

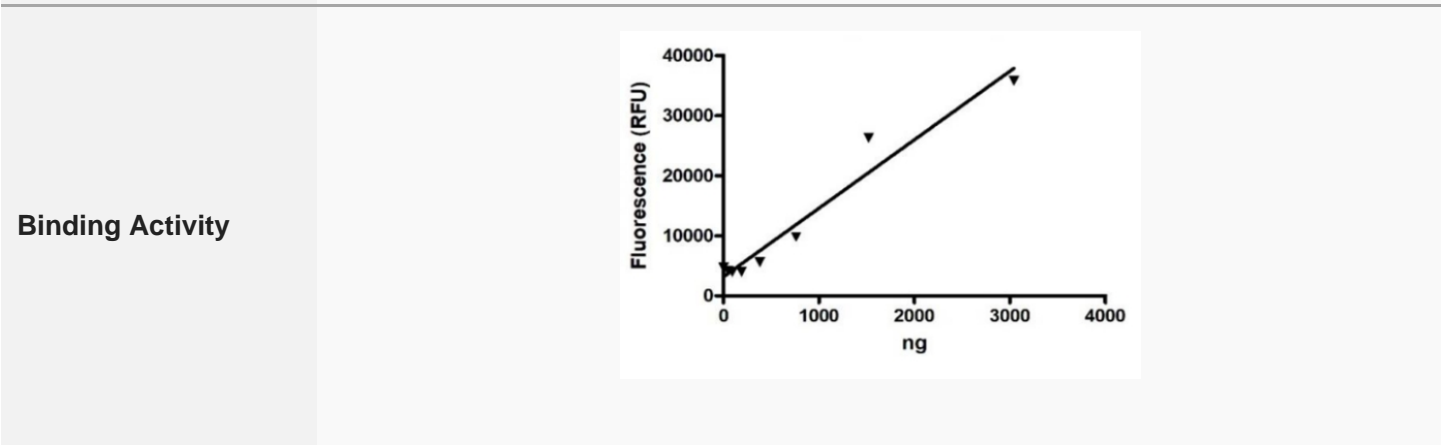
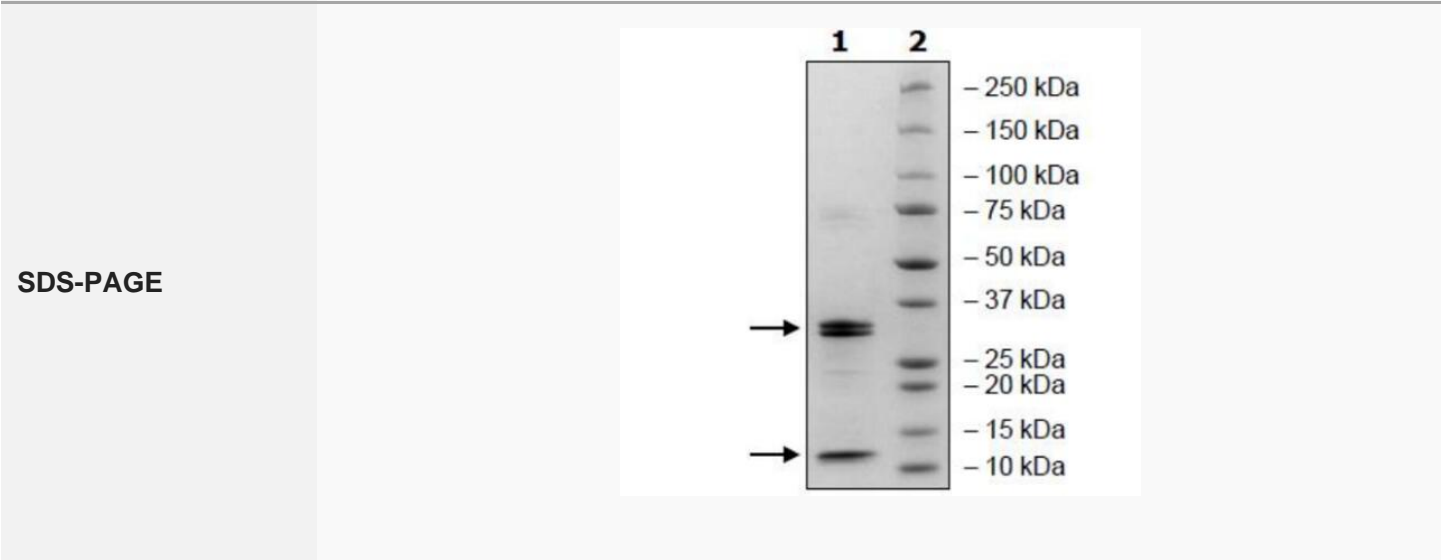
Gene Name	CASP9 caspase 9, apoptosis-related cysteine peptidase [Homo sapiens (human)]
Official Symbol	CASP9
Synonyms	CASP9; caspase 9, apoptosis-related cysteine peptidase; caspase 9, apoptosis related cysteine protease; caspase-9; APAF 3; ICE LAP6; MCH6; PPP1R56; protein phosphatase 1; regulatory subunit 56; apoptotic protease MCH-6; ICE-like apoptotic protease 6; apoptotic protease activating factor 3; protein phosphatase 1, regulatory subunit 56; APAF3; APAF-3; ICE-LAP6; CASPASE-9c

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Gene ID	842
mRNA Refseq	NM_001229
Protein Refseq	NP_001220
MIM	602234
UniProt ID	P55211



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