



Human CASP9 peptide (DAG-P0301)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. [provided by RefSeq, May 2013]
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.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the peptidase C14A family. Contains 1 CARD domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

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; MCH6; APAF3; APAF-3; PPP1R56; ICE-LAP6; caspase-9; apoptotic protease MCH-6; ICE-like apoptotic protease 6; apoptotic protease activating factor 3; protein phosphatase 1, regulatory subunit 56;
Entrez Gene ID	842
mRNA Refseq	NM_001229.4
Protein Refseq	NP_001220.2
UniProt ID	P55211
Chromosome Location	1p36.21
Pathway	AGE/RAGE pathway, organism-specific biosystem; AKT phosphorylates targets in the cytosol, organism-specific biosystem; Activation of caspases through apoptosome-mediated cleavage, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Alzheimers Disease, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (AL
Function	SH3 domain binding; cysteine-type endopeptidase activity; enzyme activator activity; peptidase activity; protein binding; protein kinase binding;