



# Recombinant Rat Caspase-3 (Casp3)

<b>Product Code</b>	CSB-EP004548RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P55213
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SG IYLDSSYKMD YPEMGLCIII NNKNFHKSTG MSARNGTDVD AANLRETFMA LKYEVRNKND LTREEIMELM DSVSKEDHSK RSSFVCVILS HGDEGVIFGT NGPVDLKKLT SFFRGDYCRS LTGKPKLFII QACRGTELDC GIETD
<b>Source</b>	E.coli
<b>Target Names</b>	Casp3
<b>Protein Names</b>	Recommended name: Caspase-3 Short name= CASP-3 EC= 3.4.22.56 Alternative name(s): Apopain Cysteine protease CPP32 Short name= CPP-32 IRP LICE Protein Yama SREBP cleavage activity 1 Short name= SCA-1
<b>Expression Region</b>	29-175
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a protein which is 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 cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer s disease. Alternative splicing of this gene results in two transcript variants that encode the same protein.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.