



Recombinant Rat Caspase-3 (Casp3)

Product Code	CSB-EP004548RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P55213
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	SG IYLDSSYKMD YPEMGLCIII NNKNFHKSTG MSARNGTDVD AANLRETFMA LKYEVRNKND LTREEIMELM DSVSKEDHSK RSSFVCVILS HGDEGVIFGT NGPVDLKCLT SFFRGDYCRS LTGKPKLFII QACRGTELDC GIETD
Source	E.coli
Target Names	Casp3
Protein Names	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
Expression Region	29-175
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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.
Shelf Life	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.