

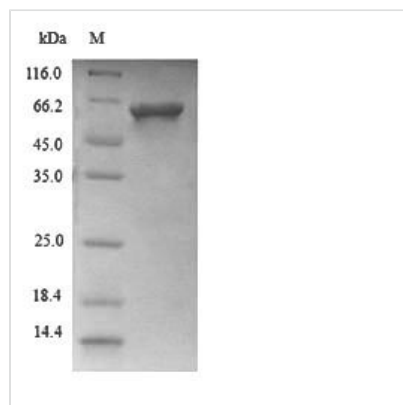


# Recombinant Candida albicans Candidapepsin-9 (SAP9)

<b>Product Code</b>	CSB-YP522117CZF
<b>Relevance</b>	Preferential cleavage at the carboxyl of hydrophobic amino acids, but fails to cleave 15-Leu- -Tyr-16, 16-Tyr- -Leu-17 and 24-Phe- -Phe-25 of insulin B chain. Activates trypsinogen, and degrades keratin.
<b>Abbreviation</b>	Recombinant Candida albicans SAP9 protein
<b>Storage</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.
<b>Uniprot No.</b>	O42779
<b>Alias</b>	ACP 9 Aspartate protease 9 Secreted aspartic protease 9
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Candida albicans (Yeast)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	AKAPFKIDFEVRRGESKDDLSPEDDSNPRFVKRDGSLDMLTNKQTFYMATLK IGSNEDENRVLEDTGSSDLWVMShDLKCVSAPISKRNERSFGHGTGVKLNER ELMQKRKNLYQPSRTIETDEEKEASEKIHKNKLFGFGSIYSTVYITEGPGAYSTFS PLVGTEGGSGGSGGSNTCRSYGSFNTENSDFKKNNTNDFEIQYADDTSAIGI WGYDDVTISNVTVKDLSFAIANETSSDVGVLGIGLPGLEVTTQLRYTYQNLPLK LKADGIIAKSLYSLYLNTADAKAGSILFGAIDHAKYQGDLVTVKMMRTYSQISYP VRIQVPVLKIDVESSSGSTTNILSGTTGVVLDTGSTLSYVFSDTLQSLGKALNG QYSNSVGAYVVNCLADSSRTVDIEFGGNKTIKVPISDLVLQASKSTCILGVMQ QSSSSSYMLFGDNILRSAYIVYDLDDYEVSLAQVSYTNKESIEVIGASGITNSSG SGTTSSSGTSTSTSTRHSAGSIISNPVYGLLLSLLISYYVLV
<b>Research Area</b>	Neuroscience
<b>Source</b>	Yeast
<b>Target Names</b>	SAP9
<b>Protein Names</b>	Recommended name: Candidapepsin-9 EC= 3.4.23.24 Alternative name(s): ACP 9 Aspartate protease 9 Secreted aspartic protease 9
<b>Expression Region</b>	18-544aa
<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>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	58.9kDa
<b>Protein Length</b>	Full Length of Mature Protein



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

CUSABIO used yeast cells to express N-terminal 6xHis-tagged *Candida albicans* Candidapepsin-9 (SAP9). This recombinant SAP9 protein is full-length of mature protein containing 18-54aa of *Candida albicans* SAP9. It underwent validation via SDS-PAGE analysis. Its purity reached up to 90%. Under reducing conditions, a molecular weight band of around 60 kDa was visualized on the SDS-PAGE gel. This recombinant SAP9 protein may be applied to produce specific anti-SAP9 antibodies or in the studies of neuroscience.

Secreted aspartic protease 9 (SAP9) is a potential hyphal-associated factor responsive to serum hyphal-inducing stimuli through a cAMP-protein kinase A pathway mediated by EFG1. It plays a crucial role in serum induced-hyphal formation. And it is conducive to the process of invasion of *Candida albicans* into the epithelial cells, resulting in host cell damage. Besides, SAP9 is involved in protein–receptor interactions between fungal cells, and the formation of polymicrobial biofilm communities via interkingdom communication.

## 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

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