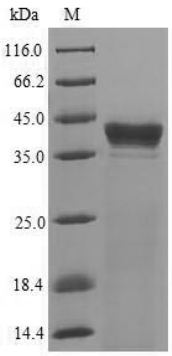
Recombinant Clostridium botulinum ATP-dependent Clp protease proteolytic subunit(clpP)

Product Code	CSB-EP401627CWV
Relevance	Cleaves peptides in various proteins in a process that requires ATP hydrolysis. Has a chymotrypsin-like activity. Plays a major role in the degradation of misfolded proteins. Hydrolysis of proteins to small peptides in the presence of ATP and magnesium. Alpha-casein is the usual test substrate. In the absence of ATP, only oligopeptides shorter than five residues are hydrolyzed (such as succinyl-Leu-Tyr-|-NHMec; and Leu-Tyr-Leu-|-Tyr-Trp, in which cleavage of the -Tyr-|-Leu- and -Tyr-|-Trp bonds also occurs).
Storage	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.
Uniprot No.	A5I6W1
Storage Buffer	Tris-based buffer,50% glycerol
Alias	Endopeptidase Clp
Product Type	Recombinant Protein
Species	Clostridium botulinum (strain Hall / ATCC 3502 / NCTC 13319 / Type A)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSLVPVVVEQTNRGERSYDIYSRLLKDRIIMLSEEVNDTTASLIVAQLLFLEAED PDKDIHLYINSPGGSITSGMAIYDTMQYIKPDVSTICVGMAASMGAFLLAAGAK GKRYALPNSEVMIHQPLGGFRGQATDIGIHAERILKMKKKLNTILSDRTGKPLE QVELDTERDHFLSAEEAKEYGLIDEVIDKKK
Lead Time	3-7 business days
Research Area	Microbiology
Source	E.coli
Gene Names	clpP
Expression Region	1-194aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	37.5kDa
Protein Description	Full Length
Image	



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