

Recombinant Clostridium Botulinum CLPP Protein (1-194 aa), His-SUMO-tagged

SPECIFICATION

Cat.No.	CLPP-1971C
Species	Clostridium botulinum
Product Name	Recombinant Clostridium Botulinum CLPP Protein (1-194 aa), His-SUMO-tagged
Product Overview	Recombinant Clostridium Botulinum (strain Hall/ATCC 3502/NCTC 13319/Type A) CLPP Protein (1-194 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Microbiology. Protein Description: Full Length.
Description	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- -NHMe; and Leu-Tyr-Leu- -Tyr-Trp, in which cleavage of the -Tyr- -Leu- and -Tyr- -Trp bonds also occurs).
Source	E. coli
Tag	His/SUMO
Form	Tris-based buffer, 50% glycerol
Molecular Mass	37.5 kDa
Protein length	1-194 aa
AA Sequence	MSLVPVVVEQTNRGERSYDIYSRLLKDRIIMLSEEVNDTTASLIVAQLLFLEAEDPKDI HLYINSPGGSITSGMAIYDTMQYIKPDVSTICVGMMAASMGAFLLAAGAKGKRYALPNS EVMIHQPLGGFRGQATDIGIHAERILKMKKKLNTILSDRTGKPLEQVELDTERDHFLSA EEAKEYGLIDEVIDKKK
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.
Gene Name	clpP ATP-dependent Clp protease proteolytic subunit [Clostridium botulinum A str. ATCC 3502]
Official Symbol	CLPP
Synonyms	clpP; Endopeptidase Clp;
Gene ID	5187372
Protein Refseq	YP_001255721
UniProt ID	A5I6W1
Figure 1	CLPP-1971C, 1.jpg
Figure Note 1	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.