

## AcMNPV Viral cathepsin Protein (His & SUMO)

### General Information

Synonyms:	Viral cathepsin;V-cath;Cysteine proteinase (CP);VCATH
Protein Construction:	113-323 aa
Species:	AcMNPV
Expression Host:	E. coli
Accession:	P25783
Molecular Weight:	39.9 kDa (predicted)
AA Sequence:	PLEFDWRRLNKVTSVKNQGMCGACWAFATLASLESQFAIKHNQLINLSEQQMIDCDFVDAGCNGLLHTAF EAIKMGGVQLESDYPYEADNNNCRMNSNKFLVQVKDCYRYITVYEEKLKDLLRLVGPIMDAADIVNYKQ GIIKYCFNSGLNHAVLLVGYGVENNIPYWTFKNTWGTDWGEDGFFRVQQNINACGMRNELASTAVIY

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Cysteine protease that plays an essential role in host liquefaction to facilitate horizontal transmission of the virus. Accumulates within infected cells as an inactive proenzyme (proV-CATH), which is activated by proteolytic cleavage upon cell death.

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