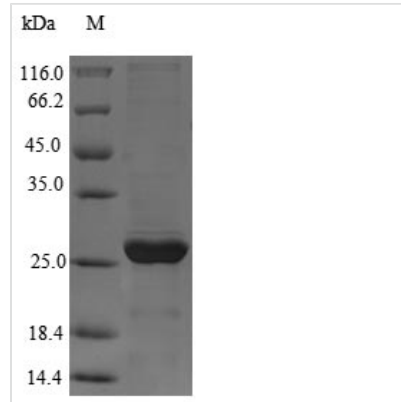




# Recombinant Giardia lamblia virus Major capsid protein (gag), partial

<b>Product Code</b>	CSB-EP724163GBAS
<b>Relevance</b>	Capsid protein self-assembles to form an icosahedral capsid with a T=2 symmetry, 35 nm in diameter, and consisting of 60 capsid proteins asymmetric dimers. The capsid encapsulates the genomic dsRNA and the polymerase and remains intact following cell entry to protect the dsRNA from degradation and to prevent unfavorable antiviral responses in the host cell during all the replication cycle of the virus. Nacent transcripts are transcribed within the structural confines of the virion and are extruded into the cytoplasm (By similarity).
<b>Abbreviation</b>	Recombinant Giardia lamblia virus Major capsid protein, partial
<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>	Q67652
<b>Alias</b>	Gag protein Major coat protein
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Giardia lamblia virus (isolate Wang) (GLV)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MVWGTGYGNPSPLNPYGFASLHRGGLNPLILAPENITFDLNTHTNDHEETHGE SPEVPKASIAPAGRQNPVVLQQNQENEDNHALGGSEDAKDEREIRFSAIKTLY NYYSEGPSTPIMPHLVNRLRGLDALAKIDATLTKVDMNAAYIFALRPTFPYSYG YKQRFNSRRLTTSALCYARTGLSSFLTVDKTYTNSPLKGGSRGWP
<b>Research Area</b>	Microbiology
<b>Source</b>	E.coli
<b>Target Names</b>	gag
<b>Protein Names</b>	Recommended name: Major capsid protein Alternative name(s): Gag protein Major coat protein
<b>Expression Region</b>	1-206aa
<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>	26.8kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



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

## Description

Constructing a plasmid encoding the Giardia lamblia virus (isolate Wang) gag protein (1-206aa) initiates the general approach for generating the recombinant Giardia lamblia virus (isolate Wang) gag protein. Transformation of the plasmid into e.coli cells obtains the plasmid-containing e.coli cells, which are cultured and induced for protein expression. A N-terminal 6xHis tag is fused to the protein. Subsequently, the protein is purified through affinity purification, and SDS-PAGE analysis is undertaken to confirm the presence and assess the purity of the protein. The protein's purity exceeds 90%.

## 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.