

Moloney murine leukemia virus (MoMLV) (isolate Shinnick) Gag polyprotein (GST)

General Information

Synonyms:	Gag polyprotein;Core polyprotein;Pr65gag;gag
Protein Construction:	216-478 aa
Species:	MoMLV
Expression Host:	E. coli
Accession:	P03332
Molecular Weight:	57.6 kDa (predicted)
AA Sequence:	PLRAGGNGQLQYWPFSSSDLYNWKNNNPSFSEDPGKLTALIESVLITHQPTWDDCQQLLGTLLTGEEKQRVL LEARKAVRGDDGRPTQLPNEVDAAFLERPDWDYTTQAGRNLVHYRQLLLAGLQNAGRSPTNLAKVKGIT QGPNESPSAFLERLKEAYRRYTPYDPEDPGQETNVSMSFIWQSAPDIGRKLERLEDLKNKTLGDLVREAEKIF NKRETPEEREERIRRETEEKEERRRTEDEQKEKERDRRRHREMSKLL

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.

Actual storage temperature shall be subject to the COA.

Shipping:

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

Protein Background

Plays a role in budding and is processed by the viral protease during virion maturation outside the cell. During budding, it recruits, in a PPXY-dependent or independent manner, Nedd4-like ubiquitin ligases that conjugate ubiquitin molecules to Gag, or to Gag binding host factors. Interaction with HECT ubiquitin ligases probably links the viral protein to the host ESCRT pathway and facilitates release.; Targets Gag and gag-pol polyproteins to the

plasma membrane via a multipartite membrane binding signal, that includes its myristoylated N-terminus. Also mediates nuclear localization of the pre-integration complex.; Constituent of the pre-integration complex (PIC) which tethers the latter to mitotic chromosomes.; Forms the spherical core of the virion that encapsulates the genomic RNA-nucleocapsid complex.; Involved in the packaging and encapsidation of two copies of the genome. Binds with high affinity to conserved UUG elements within the packaging signal, located near the 5'-end of the genome. This binding is dependent on genome dimerization.

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