Data Sheet (Cat.No.TMPH-00759)

TargetMol

FIV (isolate Petaluma) Gag polyprotein (His & Myc)

General Information

Synonyms:	Gag polyprotein;gag
Protein Construction:	1-135 aa
Species:	FIV
Expression Host:	E. coli
Accession:	P16087
Molecular Weight:	22.1 kDa (predicted)
AA Sequence:	MGNGQGRDWKMAIKRCSNVAVGVGGKSKKFGEGNFRWAIRMANVSTGREPGDIPETLDQLRLVICDLQERR EKFGSSKEIDMAIVTLKVFAVAGLLNMTVSTAAAAENMYSQMGLDTRPSMKEAGGKEEGPPQAY

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:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

Matrix protein p15 forms the outer shell of the core of the virus, lining the inner surface of the viral membrane.; Capsid protein p24 forms the conical core of the virus that encapsulates the genomic RNA-nucleocapsid complex.; Nucleocapsid protein p13 encapsulates and protects viral dimeric unspliced (genomic) RNA. Binds these RNAs

through its zinc fingers.

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