

p24 Protein, HIV-1 (ACI05538, His)

Cat. No.:	HY-P73922
Synonyms:	CA; Capsid Protein; HIV1 Gag p24; Gag polyprotein; Pr55(Gag)
Species:	Virus
Source:	E. coli
Accession:	ACI05538 (P133-L363)
Gene ID:	/
Molecular Weight:	Approximately 26.5 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 0.14M PB, 0.5M NaCl, 20% Glycerol, 1 mM DTT, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The Gag-Pol polyprotein assumes a central role in the virion assembly process, collaborating with the Gag polyprotein to orchestrate essential events such as binding to the plasma membrane, facilitating protein-protein interactions crucial for spherical particle formation, recruiting viral Env proteins, and packaging genomic RNA through direct interactions with the RNA packaging sequence (Psi). This polyprotein potentially regulates its own translation by binding genomic RNA in the 5'-UTR, exhibiting a dual role in promoting translation at low concentrations and encapsidating genomic RNA to inhibit translation at higher concentrations. The multipartite membrane-binding signal, including the myristoylated N-terminus, targets the polyprotein to the plasma membrane. Additionally, the Matrix protein within the polyprotein is implicated in the pre-integration complex and is associated with the release from the host cell mediated by Vpu. The ability of Gag-Pol to bind to RNA further underscores its multifaceted functions in the intricate process of virion assembly^{[1][2][3][4]}.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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