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## 32-13608: HIV-1 GAG

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| **Alternative Name :** | Human immunodeficiency virus (HIV) is a retrovirus which may lead to a immune systembegins failure and to opportunistic infections. HIV primarily infects vital cells in the human immune system such as helper T cells (specifically CD4+ T cells), macrophages and dendritic cells. The Gag protein is the major structural protein required for virus assembly. It is synthesizedas a polyprotein in the cytosol of an infected cell and contains 4 functional segments. Gag alone is sufficient to produce buddingvirus-like particles (VLP's) due to multimerization of roughly 2000 Gag molecules per virion.The Gag proteins take part throughout the viral life-cycle, including the assembly and release of viral particles, theirsubsequent maturation into infectious virions, and during the events occurring between therelease of capsids into newly infected cells and the integration of proviral DNA. |

## Description

Source: Escherichia Coli.
Sterile Filtered White lyophilized (freeze-dried) powder.
Human immunodeficiency virus (HIV) is a retrovirus which may lead to a immune systembegins failure and to opportunistic infections. HIV primarily infects vital cells in the human immune system such as helper T cells (specifically CD4+ T cells), macrophages and dendritic cells. The Gag protein is the major structural protein required for virus assembly. It is synthesizedas a polyprotein in the cytosol of an infected cell and contains 4 functional segments. Gag alone is sufficient to produce buddingvirus-like particles (VLP's) due to multimerization of roughly 2000 Gag molecules per virion.The Gag proteins take part throughout the viral life-cycle, including the assembly and release of viral particles, theirsubsequent maturation into infectious virions, and during the events occurring between therelease of capsids into newly infected cells and the integration of proviral DNA.
HIV-1 GAG Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain, encoded by the HIV gag gene, HXB2 (790-2292) and having a molecular mass of 55.0kDa. HIV-1 GAG is fused to a His-tag and is purified by proprietary chromatographic technique.

## Product Info

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| **Amount :** | 2 µg / 10 µg |
| **Purification :** | Greater than 90.0% as determined by SDS-PAGE. |
| **Content :** | Lyophilized with 1% glycerol.<br>It is recommended to reconstitute the lyophilized HIV-1 GAG in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. |
| **Storage condition :** | Lyophilized HIV-1 GAG although stable at room temperature for 1 week, should be stored desiccated below -18°C. Upon reconstitution HIV-1 GAG should be stored at 4°C between 2-7 days and for future use below -18°C.For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles. |

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***