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Product Information

HIV-1 gag Antigen

Recombinant
Expressed in *E. coli*

Product Number **H 0160**
Storage Temperature $-20\text{ }^{\circ}\text{C}$

Synonyms: p24 HIV antigen

Product Description

The HIV-1 gag antigen is a recombinant 39 kDa protein encoded by the GAG gene of the Human Immunodeficiency Virus (HIV) Type I expressed in and isolated from *Escherichia coli*. It contains 358 amino acid residues (from 77-436) as well as a β -galactosidase tag (114 kDa) on the N-terminus.

HIV-1 gag (p24) antigen reacts strongly with human HIV positive serum and may be used as a positive control for evaluating antibodies to HIV.

Reagent

The HIV-1 gag antigen is supplied at 1.0 mg/ml in a solution containing 8 M urea, 20 mM Tris-HCl, pH 8.0, and 10 mM β -mercaptoethanol. Purity is >95% as determined by SDS-PAGE and spectrophotometry.

Precautions and Disclaimer

This product is for laboratory research use only. It is not suitable for human therapeutic or diagnostic use.

Please consult the Material Safety Data Sheet for handling recommendations before working with this material.

Storage/Stability

For long term storage, store at $-20\text{ }^{\circ}\text{C}$. The solution can be stored at $2-8\text{ }^{\circ}\text{C}$ for up to four months.

References

1. Wang, C.T., et al., Sequence requirements for incorporation of human immunodeficiency virus gag-beta-galactosidase fusion proteins into virus-like particles. *J. Med. Virol.*, **59**, 180-188 (1999).
2. Mervis, R. J., et al., The gag gene products of human immunodeficiency virus type 1: alignment within the gag open reading frame, identification of posttranslational modifications, and evidence for alternative gag precursors. *J. Virol.*, **62**, 3993-4002 (1988).
3. Zhang, Y. et al., Analysis of the assembly function of the human immunodeficiency virus type 1 gag protein nucleocapsid domain. *J. Virol.*, **72**, 1782-1789 (1998).

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