

Catalog No.:

AR10657PU-N

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## AR10657PU-N OriGene EU

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## HIV-1 gp120 nef Mosaic - Purified

Quantity:	0.5 mg
Background:	Human immunodeficiency virus (HIV) is a retrovirusthat can lead to a condition in which the immune systembegins to fail, leading to opportunistic infections. HIV primarily infects vital cells in the humanimmune systemsuch as helper T cells(specifically CD4+ T cells), macrophagesand dendritic cells. HIV infection leads to low levels of CD4+ T cells through three main mechanisms: firstly, direct viral killing of infected cells; secondly, increased rates of apoptosisin infected cells; and thirdly, killing of infected CD4+ T cells by CD8 cytotoxic lymphocytesthat recognize infected cells. When CD4+ T cell numbers decline below a critical level, cell-mediated immunityis lost, and the body becomes progressively more susceptible to opportunistic infections. HIV was classified as a member of the genus Lentivirus, part of the family of Retroviridae. Lentiviruses have many common morphologies and biological properties. Many species are infected by lentiviruses, which are characteristically responsible for long-duration illnesses with a long incubation period. Lentiviruses are transmitted as single-stranded, positive-sense, enveloped RNA viruses. Upon entry of the target cell, the viral RNA genomeis converted to double-stranded DNAby a virally encoded reverse transcriptasethat is present in the virus particle. This viral DNA is then integrated into the cellular DNA by a virally encoded integrases ot that the genome can be transcribed. Once the virus has infected the cell, two pathways are possible: either the virus becomes latentand the infected cell continues to function, or the virus becomes active and replicates, and a large number of virus particles are liberated that can then infect other cells.
Source:	E. coli
Format:	<ul> <li>State: Liquid sterile filtered colorless clear solution</li> <li>Purity: &gt; 95.0% as determined by HPLC analysis and SDS-PAGE</li> <li>Buffer System: 10mM Tris-HCl, pH 4.5, 100mM Sodium Phosphate and 8M Urea</li> </ul>
Applications:	HIV-1 gp120 antigen is suitable for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	Recombinant HIV-1 gp120 is a non-glycosylated polypeptide chain, containing HIV-1 gp120 N-terminus immunodominant regions, 30-110 amino acids. <b>Specificity:</b> Immunoreactive with all sera of HIV-1 infected individuals.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.





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