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HIV-1/2 ELISA

HIV-1/2 ELISA Recombinant
VAG0343

Product Overview

Name	HIV-1/2 ELISA

Description

HIV-1/2 ELISA Recombinant

Source

Escherichia Coli.

Physical Appearance

2 vials of sterile Filtered clear colorless solution.

Formulation

* HIV1 gp41 in 25mM K2CO3 and PBS. * HIV2 gp36 in 25mM K2CO3 and PBS.

Stability

For periods up to 1 month HIV-1/2 Rapid should be stored at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Purity

Protein is >95% pure as determined by 10% PAGE (coomassie staining).

Background

Recombinant HIV-1/2 Proteins play a crucial role in antiviral drug development. They serve as targets for drug screening, allowing researchers to identify compounds that inhibit key viral enzymes or interfere with viral entry. Moreover, these proteins are instrumental in studying drug resistance mechanisms, providing insights into how the virus adapts to selective pressures and guiding the development of more effective antiretroviral therapies. Understanding Viral Dynamics and Host Interactions: Studying Recombinant HIV-1/2 Proteins provides a lens into the dynamic interplay between the virus and host cells. These proteins help unravel the mechanisms of viral entry, integration into the host genome, and evasion of host immune surveillance. Insights gained from these studies are critical for devising strategies to disrupt viral replication and enhance the host's ability to control or eliminate the virus. Challenges and Future Directions: While the potential of Recombinant HIV-1/2 Proteins in HIV research is evident, challenges persist. Fine-tuning their applications, addressing issues of genetic diversity within HIV subtypes, and optimizing strategies for vaccine and drug development are critical considerations for translational success. Additionally, understanding the intricate host-virus interactions in different cellular contexts remains a dynamic area of investigation. Recombinant HIV-1/2 Proteins stand as sentinel tools in the ongoing battle against HIV/AIDS, providing

researchers with a nuanced understanding of viral dynamics and immune responses. Their structural insights, immunogenic properties, and applications in drug and vaccine development position them as central players in advancing our capabilities to combat HIV. As scientists continue to delve into the molecular intricacies of these recombinant proteins, they not only deepen our understanding of HIV pathogenesis but also pave the way for transformative advancements in HIV treatment and prevention, shaping the future of global health efforts against this formidable virus.

Precautions

HIV-1/2 ELISA is for research use only and not for use in diagnostic or therapeutic procedures.

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