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RSV Human

Respiratory Syncytial Virus Human Recombinant
VAG0419

Product Overview

Name	RSV Human

Description

Respiratory Syncytial Virus Human Recombinant

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

RSV protein solution contains 0.25% sodium azide, 10mM K2CO3 and PBS.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Protein is >90% pure as determined by 10% PAGE (coomassie staining).

Amino acid sequence

HMALSKVKLNDTLNKDQLLSSSKYTIQRSTGDSIDTPNYDVQKHINKLCGMLLITEDANHKFT
GLIGMLYAMSRLGREDTIKILRDAGYHVKANGVDVTTHRQDINGKEMKFEVLTLASLTTEI
QINIEIESRKSYKKMLKEMGEVAPEYRHDSPDCGMIILCIAALVITKLAAGDRSGLTAVI
RRANNVLKNEMKRYKGLLPKDIANSFYEVFEKHPHFIDVFVHFGIAQSSTRGGSRVEGIFAG LFMNAYGAGQV
MLRWGVLAKSVKNIMLGHASVQAEMEQVVEVYEYAQKLGGEAGFYHIL
NNPKASLLSLTQFPHFSSVVLGNAAGLGIMGEYRGTPRNQDLYDAAKAYAEQLKENGV

Background

Respiratory Syncytial Virus (RSV) remains a formidable pathogen, especially in vulnerable populations such as infants and the elderly, causing significant morbidity and mortality worldwide. The pursuit of effective preventive and therapeutic strategies has led to the exploration of RSV Recombinant Protein as a key player in the molecular battle against this respiratory pathogen. This research aims to unravel the intricacies of RSV Recombinant Protein, shedding light on its structural features, immunogenic potential, and its applications in vaccine development and antiviral therapies. By dissecting the properties of RSV Recombinant Protein, scientists seek to fortify our defenses against

RSV and advance the prospects for improved clinical outcomes. Structural Insights into RSV Recombinant Protein: RSV Recombinant Protein, engineered to mimic key viral antigens, offers a controlled and standardized tool for studying the virus's structural components. Understanding the protein's three-dimensional structure and conformational characteristics is paramount for elucidating its interactions with the immune system, guiding the design of effective vaccines, and unraveling potential targets for antiviral drugs. Immunogenic Potential and Vaccine Development: The quest for an effective RSV vaccine has been challenged by the virus's ability to elude natural immunity. RSV Recombinant Protein, designed to trigger robust immune responses, is a promising candidate for vaccine development. By presenting viral antigens to the immune system in a controlled manner, the recombinant protein aims to induce protective immune responses, particularly neutralizing antibodies, that guard against RSV infection and its associated complications. Application in Passive Immunization and Therapeutics: Beyond vaccination, RSV Recombinant Protein holds promise in the realm of passive immunization and antiviral therapies. Monoclonal antibodies derived from the recombinant protein can be employed to provide immediate, targeted immunity against RSV. This approach is particularly relevant for individuals at high risk, such as premature infants or immunocompromised patients, offering a bridge to protection until their own immune responses can be activated. Challenges and Future Directions: While RSV Recombinant Protein represents a beacon of hope in the fight against RSV, challenges persist. The virus's ability to mutate and evade immune detection necessitates ongoing research to refine and adapt recombinant strategies. Additionally, considerations of vaccine safety, optimal dosing, and potential side effects demand thorough investigation to ensure the translational success of RSV Recombinant Protein-based interventions. RSV Recombinant Protein emerges as a key protagonist in the scientific narrative against Respiratory Syncytial Virus. Its structural insights, immunogenic potential, and applications in vaccine development and antiviral therapies mark it as a pivotal tool in our arsenal. As researchers continue to decipher the molecular intricacies of RSV Recombinant Protein, they pave the way for innovative strategies that may revolutionize RSV prevention and treatment, ultimately shaping the landscape of respiratory virus control and global health.

Precautions

RSV Human is for research use only and not for use in diagnostic or therapeutic procedures.

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