9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IBV-NP

Influenza B Virus Nucleoprotein Recombinant
VAG0381

Product Overview

Name	IBV-NP

Description

Influenza B Virus Nucleoprotein Recombinant

Source

E. coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

IBV-NP protein solution contains 25mM K_2CO_3 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.

Amino acid sequence

HMSNMDIDGMNTGTIDKTPEEITSGTSGTTRPIIRPATLAPPSNKRTRNPSPDRTTTSSE
DDVGRKAQKKQTPTEIKKSVYNMVVKLGEFYNQMMVKAGLNDDMERNLIQNAHAVERILL
AATDDKKTEFQKKKNARDVKEGKEEIDHNKTGGTFYKMVRDDKTIYFSPIRITFLKEEVKT
MYKTTMGSDGFSGLNHIMIGHSQMNDVCFQRSKALKRVGLDPSLISTFAGSTVPRRSGATGV
AIKGGGTLVAEAIRFIGRAMADRGLLRDIKAKTAYEKILLNLKNKCSAPQQKALVDQVIGSRN
PGIADIEDLTLLARSMVVVRPSVASKVVLPISIYAKIPQLGFNVEEYSMVGYEAMALYNMATP
VSILRMGDDAKDKSQLFFMSCFGAAYEDLRVLSALTGTEFKPRSALKCKGFHVPAKEQVEGMGA
ALMSIKLQFWAPMTRSGGNEVGGDGGSGQISCSPVFAVERPIALSKQAVRRMLSMNIEGRDADV
KGNLLKMMNDSMAKKTSGNAFIGKKMFQISDKNKTNPIEIPIKQTIPNFFFGRDTAEDYDDLDYLE.

Background

Influenza B virus, often overshadowed by its influenza A counterpart, remains a substantial contributor to seasonal influenza infections and poses a considerable public health challenge. In the quest for effective countermeasures, Influenza B Virus Nucleoprotein Recombinant has emerged as a focal point in the ongoing battle against this resilient virus. This research endeavors to unveil the intricacies of the Nucleoprotein Recombinant, delving into its structural nuances, immunogenic capabilities, and applications in vaccine development and antiviral therapies. By dissecting the

properties of the Nucleoprotein Recombinant, scientists aspire to fortify our defenses against Influenza B, potentially reshaping strategies for broader influenza immunity. Structural Insights into Nucleoprotein Recombinant: Engineered to replicate key viral components, the Influenza B Virus Nucleoprotein Recombinant serves as a molecular mirror, allowing a comprehensive study of the virus's genetic material. Understanding its three-dimensional structure and conformational intricacies is crucial, not only for decoding the virus's replication mechanisms but also for tailoring interventions like vaccines and antiviral drugs to specific vulnerabilities. Immunogenic Potential and Vaccine Development: The challenge of Influenza B's seasonal variability necessitates innovative approaches to vaccine development. Nucleoprotein Recombinant, designed to induce potent immune responses, emerges as a promising candidate. By presenting conserved viral elements to the immune system, the recombinant protein seeks to instigate robust and durable immunity, countering the virus's propensity for antigenic drift and promoting broader protection. Application in Antiviral Therapies: In addition to its role in vaccination, the Influenza B Virus Nucleoprotein Recombinant holds potential in antiviral therapies. The recombinant protein's ability to provoke immune responses can be harnessed for the development of immunotherapies. Monoclonal antibodies derived from the Nucleoprotein Recombinant may offer targeted treatments, providing a dynamic approach to mitigating the impact of Influenza B infections. Challenges and Future Directions: Despite the promises held by the Nucleoprotein Recombinant, challenges persist. The virus's ability to undergo genetic reassortment and antigenic drift requires ongoing vigilance and adaptability in recombinant strategies. Considerations of vaccine safety, efficacy, and public acceptance demand continual exploration to optimize the translational success of Nucleoprotein Recombinant-based interventions. Influenza B Virus Nucleoprotein Recombinant stands as a beacon in the scientific quest against influenza, offering a pathway to a more comprehensive and resilient immunity. Its structural insights, immunogenic potential, and applications in vaccine development and antiviral therapies position it as a central player. As researchers delve deeper into the molecular intricacies of Nucleoprotein Recombinant, they not only fortify our defenses against Influenza B but potentially pave the way for a paradigm shift in our approach to influenza prevention and control, influencing the landscape of global health preparedness.

Precautions

IBV-NP is for research use only and not for use in diagnostic or therapeutic procedures.

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