Product Data Sheet

Product Name:	H3N2 Canine, Mutant
Cat. No.:	GP25495
Batch No.:	1

Product Data

Purity	>98%	Source	E. coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Amino Acid Sequence	ADNLPGNENN AATLCLGHHA VPNGTIVKTI TDDQIEVTNA TELVQNSSTG KICNNPHKIL DGRDCTLIDA LLGDPHCDVF QNETWDLFVE RSNAFSNCYP YDVPDYASLR SIVASSGTLE FITEGFTWAG VTQNGGSGAC KKGPANGFFS RLNWLTKSGN TYPVLNVTMP NNNNFDKLYI WGVHHPSTNQ EQTSLYIQAS GRVKVSTRRS QQTIIPNIGS RPLVRGQSGR ISVYWTIVKP GDVLVINSNG NLIAPRGYFK MRIGKSSIMR SDAPIDTCIS ECITPNGSIP NEKPFQNVNK ITYGACPKYV KQNTLKLATG MRNVPERQTH HHHHH		
Formulation	The H3N2 Canine solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

Introduction

H3N2 is a subtype of the influenza A virus. Its name derives from the forms of the two kinds of proteins on the surface of its coat, hemagglutinin (H) and neuraminidase (N). H3N2 exchanges genes for internal proteins with other influenza subtypes. H3N2 has tended to dominate in prevalence over H1N1, H1N2, and influenza B. H3N2 strain descended from H2N2 by antigenic shift, in which genes from multiple subtypes re-assorted to form a new virus. Both the H2N2 and H3N2 strains contained genes from avian influenza viruses.H3N2 viruses are able to infect mammals and birds. In pigs, humans, and birds, the virus has mutated into many strains. Hemagglutinin(HA) binds to sialic acid-containing receptors on the cell surface, generating the attachment of the virus particle to the cell. HA has a vital part in the determination of host range restriction and virulence and is in charge of the diffusion of the virus into the cell cytoplasm by facilitating the fusion of the membrane of the endocytos

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.
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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.

Background

H3N2 Canine produced in E. coli. is a single non-glycosylated polypeptide chain containing 335 amino acids (18-344) and having a molecular mass of 36.8kDa.H3N2 Canine is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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