

Recombinant Saint Louis Encephalitis Virus NS1 Protein, His-tagged

Cat. No. SAI-567 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

This is a recombinant Saint Louis encephalitis virus NS1 protein produced in HEK293 cells. The protein contains a C-terminal 6x His-tag. Saint Louis encephalitis is a disease caused by the mosquito borne Saint Louis encephalitis virus (SLEV).

Tag

His

Background

SLEV is within the Japanese encephalitis virus (JEV) complex along with other flaviviruses including Murray Valley encephalitis virus (MVEV) and West Nile virus (WNV).

The SLEV genome is ~11 kb, single-stranded, positive-sense RNA and encodes a polyprotein flanked by 5' and 3' untranslated regions. At the nucleotide and amino acid level, SLEV has much lower variation than other members of the Japanese encephalitis virus complex. The polyprotein is co- and post-translationally processed into the three structural proteins in the order, capsid (C), pre-membrane/membrane (prM/M) and envelope (E) and seven non-structural proteins: NS1, NS2A, NS2B, NS3, NS4A, NS4B and NS5.

NS1 involved in immune evasion, pathogenesis and viral replication. Following cleavage, it is targeted to three destinations; the viral replication cycle, the plasma membrane and the extracellular compartment. It is essential for viral replication where it is required for formation of the replication complex and recruitment of other non-structural proteins to the ER-derived membrane structures. It is also excreted as a hexameric lipoparticle that plays a role against host immune response. It binds to the host macrophages and dendritic cells, antagonizing the complement function and

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	inhibiting signal transduction originating from Toll-like receptor 3 (TLR3).
Purity	>95% by SDS-PAGE
Sequence Strain	MS1-7
Formulation	DPBS pH7.4
Stability	At +4 centigrade: 1 week. At -80 centigrade: 1 year.
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Storage	Short Term Storage: +2 centigrade to +8 centigrade Long Term Storage: -80 centigrade
Concentration	1.0 mg/mL
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease
GENE INFORMATION	
Synonyms	Saint Louis Encephalitis Virus NS1

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