



# Recombinant DENV type 1 NS1 [His] (DAG3062)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Dengue Virus Type 1, NS1 (a.a.777-1131), Recombinant. Contains Histidine tag.
<b>Species</b>	DENV
<b>Purity</b>	95% pure (determined by SDS-PAGE). Purified by using immobilized metal-chelate affinity chromatography.
<b>Conjugate</b>	His
<b>Applications</b>	Suitable for use in ELISA and as Antigen Control. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Liquid
<b>Size</b>	0.1 mg
<b>Buffer</b>	1X D-Phosphate Buffered Saline, pH 7.4
<b>Preservative</b>	0.1% Thimerosal. 1 µg/mL of Leupeptin, Aprotinin and Pepstatin A.
<b>Storage</b>	Aliquot and store at < -20°C. Avoid multiple freeze/thaw cycles.

## BACKGROUND

<b>Introduction</b>	NS1 is one of 7 Dengue Virus non-structural proteins which are thought to be involved in viral replication. NS1 exists as a monomer in its immature form but is rapidly processed in the endoplasmic reticulum to form a stable dimer. A small amount of NS1 remains associated with intracellular organelles where it is thought to be involved in viral replication. The rest of NS1 is
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found either associated with the plasma membrane or secreted as a soluble hexadimer. NS1 is essential for viral viability but its precise biological function is unknown. Antibodies raised in response to NS1 in viral infection can cross react with cell surface antigens on epithelial cells and platelets and this has been implicated in the development of Dengue Hemorrhagic fever.

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**Keywords**

Dengue NS1; Dengue Virus non-structural protein 1; Dengue Virus NS1 glycoprotein; DENV NS1

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