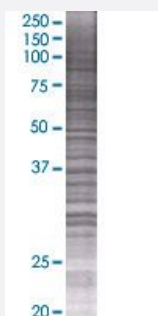


# NANS 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00054187-T01

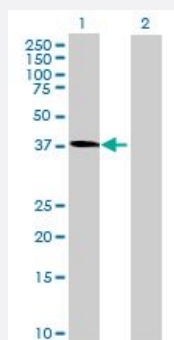
Size 100 uL

## Applications



### SDS-PAGE Gel

NANS transfected lysate.



### Western Blot

Lane 1: NANS transfected lysate ( 39.6 KDa)

Lane 2: Non-transfected lysate.

## Specification

Transfected Cell Line	293T
Plasmid	pCMV-NANS full-length
Host	Human
Theoretical MW (kDa)	39.6
Interspecies Antigen Sequence	Mouse (94); Rat (94)

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-NANS antibody ([H00054187-B01](#)) by Western Blots.  
SDS-PAGE Gel  
NANS transfected lysate.  
Western Blot  
Lane 1: NANS transfected lysate ( 39.6 KDa)  
Lane 2: Non-transfected lysate.

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — NANS

**Entrez GeneID**

[54187](#)

**GeneBank Accession#**

[NM\\_018946.2](#)

**Protein Accession#**

[NP\\_061819.2](#)

**Gene Name**

NANS

**Gene Alias**

SAS

**Gene Description**

N-acetylneuraminic acid synthase

**Omim ID**

[605202](#)

**Gene Ontology**

[Hyperlink](#)

**Gene Summary**

This gene encodes an enzyme that functions in the biosynthetic pathways of sialic acids. In vitro, the encoded protein uses N-acetylmannosamine 6-phosphate and mannose 6-phosphate as substrates to generate phosphorylated forms of N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN), respectively; however, it exhibits much higher activity toward the Neu5Ac phosphate product. In insect cells, expression of this gene results in Neu5Ac and KDN production. This gene is related to the E. coli sialic acid synthase gene neuB, and it can partially restore sialic acid synthase activity in an E. coli neuB-negative mutant. [provided by RefSeq]

**Other Designations**

N-acetylneuraminic acid phosphate synthase|OTTHUMP00000021769|sialic acid phosphate synthase|sialic acid synthase

## Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Metabolic pathways](#)