

Recombinant Human NANS 293 Cell Lysate

Cat. No. NANS-3979HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for N-acetylneuraminic acid synthase (NANS) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [NANS N-acetylneuraminic acid synthase \[Homo sapiens \]](#)

Official Symbol NANS

Synonyms NANS; N-acetylneuraminic acid synthase; sialic acid synthase; SAS; N-acetylneuraminate synthase; sialic acid phosphate synthase; N-acetylneuraminate-9-phosphate synthase; N-acetylneuraminic acid phosphate synthase;

Gene ID [54187](#)

mRNA Refseq [NM_018946](#)

Protein Refseq [NP_061819](#)

MIM [605202](#)

UniProt ID [Q9NR45](#)

Chromosome Location 9p24.1-p23

Pathway Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; CMP-N-acetylneuraminate biosynthesis I (eukaryotes), organism-specific biosystem; CMP-N-acetylneuraminate biosynthesis I (eukaryotes), conserved biosystem; Metabolic

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pathways, organism-specific biosystem; superpathway of sialic acid and CMP-sialic acid biosynthesis, conserved biosystem;

Function

N-acetylneuraminate synthase activity; N-acylneuraminate cytidyltransferase activity; N-acylneuraminate-9-phosphate synthase activity; transferase activity;

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