

Recombinant Full Length Human NANS Protein, C-Flag-tagged

Cat. No. NANS-1165HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NANS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	40.1 kDa
AA Sequence	MPLELELCPGRWVGGQHPCFIIAIGQNHQGDLDVAKRMIRMAKECGADCAKFQKS ELEFKFNRKALERP YTSKHSWGKTYGEHKRHLEFSDQYRELQRYAEEVGIFFTAS GMDEMAVEFLHELNPFFKVGSGDTNNF PYLEKTAKKGRPMVISSGMQSM DTMK QVYQIVKPLNPNFCFLQCTSAYPLQPEDVNLRVISEYQKLFPDI PIGYSGHETGIAISV AAVALGAKVLERHITLDKTKWKGSDHSASLEPGELAELVRSVRLVERALGSP TKQL LP

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CEMACNEKLGKSVVAKVKIPEGTILTMMLTVKVGEPKGYPPEDIFNLVGKKVLTV
EEDDTIMEELV
DNHGKKIKSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Amino sugar and nucleotide sugar metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	NANS N-acetylneuraminate synthase [Homo sapiens (human)]
Official Symbol	NANS
Synonyms	SAS; SEMDG; SEMDCG; HEL-S-100
Gene ID	54187
mRNA Refseq	NM_018946.4

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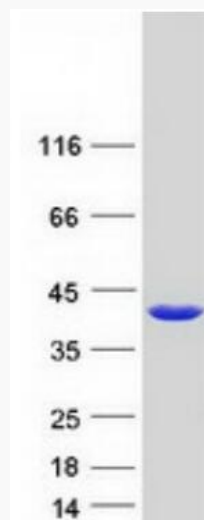
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Protein Refseq NP_061819.2

MIM 605202

UniProt ID Q9NR45



Coomassie blue staining of purified NANS protein.

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