

Product datasheet for TP300123

OriGene Technologies, Inc.

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NANS (NM 018946) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human N-acetylneuraminic acid synthase (NANS), 20 μg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC200123 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MPLELELCPGRWVGGQHPCFIIAEIGQNHQGDLDVAKRMIRMAKECGADCAKFQKSELEFKFNRKALERP YTSKHSWGKTYGEHKRHLEFSHDQYRELQRYAEEVGIFFTASGMDEMAVEFLHELNVPFFKVGSGDTNNF PYLEKTAKKGRPMVISSGMQSMDTMKQVYQIVKPLNPNFCFLQCTSAYPLQPEDVNLRVISEYQKLFPDI PIGYSGHETGIAISVAAVALGAKVLERHITLDKTWKGSDHSASLEPGELAELVRSVRLVERALGSPTKQL LPCEMACNEKLGKSVVAKVKIPEGTILTMDMLTVKVGEPKGYPPEDIFNLVGKKVLVTVEEDDTIMEELV

DNHGKKIKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 40.1 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 061819

Locus ID: 54187



NANS (NM_018946) Human Recombinant Protein - TP300123

UniProt ID: Q9NR45

RefSeq Size: 1257

Cytogenetics: 9q22.33 RefSeq ORF: 1077

Synonyms: HEL-S-100; SAS; SEMDCG; SEMDG

Summary: This gene encodes an enzyme that functions in the biosynthetic pathways of sialic acids. In

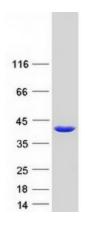
vitro, the encoded protein uses N-acetylmannosamine 6-phosphate and mannose 6-phosphate as substrates to generate phosphorylated forms of N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN), respectively; however, it exhibits much higher activity toward the Neu5Ac 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, Jul 2008]

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified NANS protein (Cat# TP300123). The protein was produced from HEK293T cells transfected with NANS cDNA clone (Cat# [RC200123]) using MegaTran 2.0 (Cat#

[TT210002]).