

Product datasheet for **TP300123M**

NANS (NM_018946) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human N-acetylneuraminic acid synthase (NANS), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200123 protein sequence Red =Cloning site Green =Tags(s)

MPLELELCPGRWVGGQHPCFIIAEIGQNHQGDL DVAKRMIRMAKECGADCAKFQKSELEFKFNKALERP
YTSKHSWGKTYGEHKRHLEFSDQYRELQRYAEEVGIFFASGMDMAVEFLHELNVPPFKVGS GDTNNF
PYLEKTAKKGRPMVISSGMQSM DTMKQVYQIVKPLNPNFCFLQCTSAYPLQPEDVNL R VISEYQKLF PDI
PIGYSGHETGIAISVAALGAKVLERHITLDKTKWKGSDHSASLEPGELAE LVRVRLVERALGSPTKQL
LPCEMACNEKLGKSVAKVKIPEGTIL TMDMLTVKVGEPKGYPPEDIFNLVGGKVLVTVEEDDTIMEELV
DNHGK KIKS

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:	<u>NP_061819</u>
Locus ID:	54187



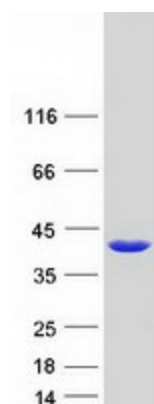
[View online »](#)

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]).