

Product datasheet for PH300123

NANS (NM_018946) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NANS MS Standard C13 and N15-labeled recombinant protein (NP_061819)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200123
Predicted MW:	40.3 kDa
Protein Sequence:	>RC200123 protein sequence Red=Cloning site Green=Tags(s) MPLELELCPGRWVGGQHPCFIIAEIGQNHQGDLDVAKRMIRMAKECGADCAKFQKSELEFKFNRKALERP YTSKHSWGKTYGEHKRHLEFSDHQYRELQRYAEEVGIFFTASGMDEMAVEFLHELNVPPFKVSGDNTNF PYLEKTAKKGRPMVISSGMQSDMTMKQVYQIVKPLNPNFCFLQCT SAYPLQPEDVNLRVISEYQKLFDPDI PIGYSGHETGIAISVAVALGAKVLERHITLDKTWKGS DHSASLEPGEL AELVRSVRLVERALGSPTKQL LPCEMACNEKLGKSVVAKVKIPEGTIL TMDMLTVKVGEPKGYPPEDI FNLVGGKVLVTVEEDDTIMEELV DNHGKKIKS TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_061819</u>
RefSeq Size:	1257
RefSeq ORF:	1077
Synonyms:	HEL-S-100; SAS; SEMDCG; SEMDG
Locus ID:	54187



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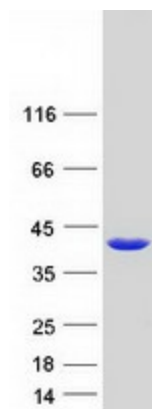
UniProt ID: [Q9NR45](#)

Cytogenetics: 9q22.33

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]).