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Product datasheet for PH321282

NAGS (NM_153006) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NAGS MS Standard C13 and N15-labeled recombinant protein (NP_694551)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221282
Predicted MW:	58 kDa
Protein Sequence:	>RC221282 representing NM_153006 Red=Cloning site Green=Tags(s) MATALMAVVLRAAAVAPRLRGRGGTGGARRLSCGARRRAARGTSPGRRLSTAWSQPQPPPEEYAGADDVS QSPVAEEPSWVPSPRPPVPHESPEPPSGRSLVQRDIQAFLNQCGASPGEARHWLTQFQTCHHSADKPFAV IEVDEEVLKCQQGVSSLAFALAFLQRMDMKPLVVLGLPAPTAPSGCLSFWEAKAQLAKSCKVLVDALRHN AAAAVPFFGGGSVLRAAEPAPHASYGGIVSVETDLLQWCLESGSIPILCPIGETAARRSVLLDSLEVTAS LAKALRPTKIIFLNNTGGLRDSSHKVLSNVNLPADLDLVCNAEWVSTKERQQMRLIVDVLSRLPHHSSAV ITAASTLLTELFSNKGSGTLFKNAERMLRVRSLDKLDQGRLVDLVNASFGKKLRDDYLASLRPRLHSIYV SEGYNAAAILTMEPVLGGTPYLDKFVVSSSRQGQGSGQMLWECLRRDLQTLFWRSRVTNPINPWYFKHSD GSFSNKQWIFFWFGLADIRDSYELVNHAKGLPDSFHKPASDPGS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_694551
RefSeq Size:	2086
RefSeq ORF:	1602

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Synonyms: AGAS; ARGA

Locus ID: 162417

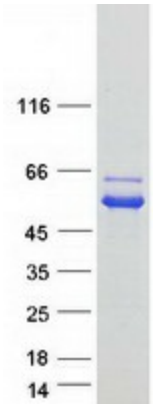
UniProt ID: Q8N159

Cytogenetics: 17q21.31

Summary: The N-acetylglutamate synthase gene encodes a mitochondrial enzyme that catalyzes the formation of N-acetylglutamate (NAG) from glutamate and acetyl coenzyme-A. NAG is a cofactor of carbamyl phosphate synthetase I (CPSI), the first enzyme of the urea cycle in mammals. This gene may regulate ureagenesis by altering NAG availability and, thereby, CPSI activity. Deficiencies in N-acetylglutamate synthase have been associated with hyperammonemia. [provided by RefSeq, Jul 2008]

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified NAGS protein (Cat# [TP321282]). The protein was produced from HEK293T cells transfected with NAGS cDNA clone (Cat# [RC221282]) using MegaTran 2.0 (Cat# [TT210002]).