

Recombinant Human NAGS Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. NAGS-347H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NAGS MS Standard C13 and N15-labeled recombinant protein (NP_694551) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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]
Molecular Mass	58 kDa
AA Sequence	MATALMAVVLRAAAVAPRLRGRGGTGGARRLSCGARRRAARGTSPGRRLSTAWS QPQPPPEEYAGADDVSQSPVAEEPSWVSPRPPVPHEspePPSGRSLVQRDIQAF LNQCGASPGEARHWLTQFQTCHHSADKPFVIEVDEEVLKCCQGGVSSLAFALFLQ RMDMKPLVVLGLPAPTAPSGCLSFWEAKAQLAKSCKVLVDALRHNAAAVPFFGG GSVLRAAEPAPHASYGGIVSVETDLLQWCLESGSIPILCPIGETAARRSVLLDSLEVT ASLAKALRPTKIIFLNTGGLRDSSHKVLNVNLPADLDLVCNAEWVSTKERQQMRI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VDVLSRLPHHSSAVITAASTLLTELF SNKSGTLFKNAERMLRVRS LDKLDQGRLVD
LVNASFGKKLRDDYLASLRPRLHSIYVSEGYNAAAILTMEPVLG GTPYLDKFV VSSSR
QGQSGSQMLWECLRRDLQTLFWR SRVTNPINPWYFKHSDGSFSNKQWIFFW FGL
ADIRDSYELVN HAKGLPDSFHKPASDPGSTRTRPLEQKLISEEDLAANDILDYKDDDD
KV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NAGS N-acetylglutamate synthase [Homo sapiens (human)]

Official Symbol NAGS

Synonyms NAGS; N-acetylglutamate synthase; AGAS; ARGAS; N-acetylglutamate synthase, mitochondrial; amino-acid acetyltransferase; EC 2.3.1.1

Gene ID 162417

mRNA Refseq NM_153006

Protein Refseq NP_694551

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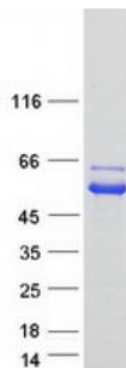
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MIM 608300

UniProt ID Q8N159

SDS-PAGE



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