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 QPQPPPEEYAGADDVSQSPVAEEPSWVPSPRPPVPHESPEPPSGRSLVQRDIQAF LNQCGASPGEARHWLTQFQTCHHSADKPFAVIEVDEEVLKCQQGVSSLAFALAFLQ RMDMKPLVVLGLPAPTAPSGCLSFWEAKAQLAKSCKVLVDALRHNAAAAVPFFGG GSVLRAAEPAPHASYGGIVSVETDLLQWCLESGSIPILCPIGETAARRSVLLDSLEVT ASLAKALRPTKIIFLNNTGGLRDSSHKVLSNVNLPADLDLVCNAEWVSTKERQQMRLI

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	VDVLSRLPHHSSAVITAASTLLTELFSNKGSGTLFKNAERMLRVRSLDKLDQGRLVD LVNASFGKKLRDDYLASLRPRLHSIYVSEGYNAAAILTMEPVLGGTPYLDKFVVSSSR QGQGSGQMLWECLRRDLQTLFWRSRVTNPINPWYFKHSDGSFSNKQWIFFWFGL ADIRDSYELVNHAKGLPDSFHKPASDPGSTRTRPLEQKLISEEDLAANDILDYKDDDD 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; ARGA; 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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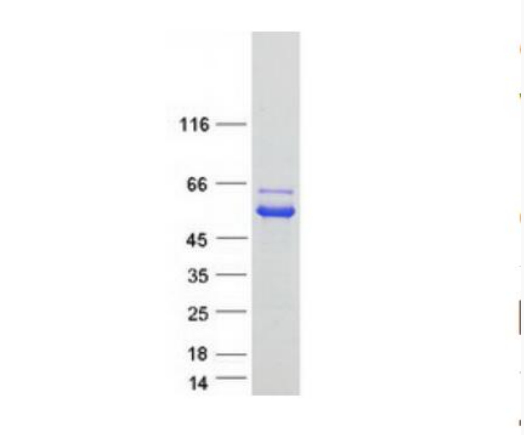
MIM	608300
UniProt ID	Q8N159
SDS-PAGE	

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