

# Recombinant Full Length Human NAGS Protein, C-Flag-tagged

Cat. No. NAGS-1012HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human NAGS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	58 kDa
<b>AA Sequence</b>	MATALMAVVLRAAAVAPRLRGRGGTGGARRLSCGARRRAARGTSPGRRLSTAWS QPQPPEEYAGADDVS QSPVAEEPSWVSPRPPVPHESPEPPSGRSLVQRDIQAF LNQCGASPGEARHWLTQFQTCHHSADKPFV IEVDEEVLKCCQGGVSSLAFALFL QRMDMKPLVVLGLPAPTAPSGCLSFWEAKAQLAKSCKVLVDALRHN AAAVPFFG GGSVLRAAEPAPHASYGGIVSVETDLLQWCLESGSIPILCPIGETAARRSVLLDSLEV TAS LAKALRPTKIIFLNNTGGLRDSSHKVLNVNLPADLDLVCNAEWWSTKERQQMR LIVDVLSRLPHHSSAV ITAASTLLTELFNSKGSGLTFKNAERMLRVRSLDKLDQGRLV

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DLVNASFGKKLRDDYLASLRPRLHSIYV SEGYNAAAILTMEPVLGGTPYLDKFVVSS  
 SRQGQSGSQMLWECLRRDLQTLFWRSRVTNPINPWYFKHSD  
 GSFSNKQWIFFWFGLADIRDSYELVNHAKGLPDSFHKPASDPGSTRTRPLEQKLISE  
 EDLAANDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Pathways</b>	Arginine and proline metabolism, Metabolic pathways
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	NAGS N-acetylglutamate synthase [ Homo sapiens (human) ]
<b>Official Symbol</b>	NAGS
<b>Synonyms</b>	AGAS; ARGA
<b>Gene ID</b>	162417

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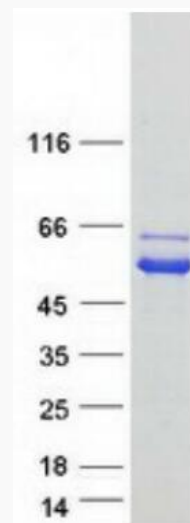
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mRNA Refseq [NM\\_153006.3](#)

Protein Refseq [NP\\_694551.1](#)

MIM [608300](#)

UniProt ID [Q8N159](#)



Coomassie blue staining of purified NAGS protein.

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