

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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human NAGS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	58 kDa
AA Sequence	MATALMAVVLRAAAVAPRLRGRGGTGGARRLSCGARRRAARGTSPGRRLSTAWS QPQPPPEEYAGADDVS QSPVAEEPSWVPSRPPVPHESPEPPSGRSLVQRDIQAF LNQCGASPGEARHWLTQFQTCHHSADKPFV IEVD EEV LK CQ QGVSSLAFLAFL QRMDMKPLVVLGLPAPTAPSGCLSFWEAKAQLAKSCKVLVDALRHN AAAAVPFFG GGSVLRAAEPAPHASYGGIVSVETDLLQWCLESGSIPILCPIGETAARRSVLLDSLEV TAS LAKALRPTKIIFLNNTGGLRDSSHKVLSNVNLPADLDLVCNAEWVSTKERQQMR LIVDVLSRLPHHSSAV ITAASTLLTELSNKGSGTLFKNAERMLRVRSLDKLDQGRV

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DLVNASFGKKLRDDYLASLRPRLHSIYV SEGYNAAAILTMEPVLGGTPYLDKFVVSS
 SRQGQSGSQMLWECLRRDLQTLFWRSRVTNPINPWYFKHSD
 GSFSNKQWIFFWFGLADIRDSYELVNHAKGLPDSFHKPASDPGSTRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

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

GENE INFORMATION

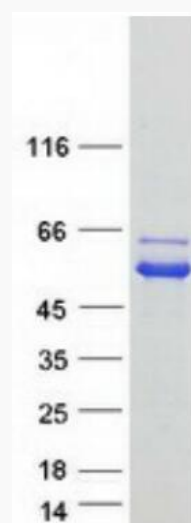
Gene Name	NAGS N-acetylglutamate synthase [Homo sapiens (human)]
Official Symbol	NAGS
Synonyms	AGAS; ARGA
Gene ID	162417

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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.