

## Recombinant Human NAGS Protein, His-tagged

Cat. No. NAGS-2476H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NAGS Protein (Glu375-His526) with a N-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Glu375-His526
<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>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 21.3 kDa Accurate Molecular Mass: 23 kDa
<b>Endotoxin</b>	<1.0 EU per 1g (determined by the LAL method).
<b>Purity</b>	> 95%

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<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS or others.

## GENE INFORMATION

<b>Gene Name</b>	NAGS N-acetylglutamate synthase [ Homo sapiens (human) ]
<b>Official Symbol</b>	NAGS
<b>Synonyms</b>	NAGS; N-acetylglutamate synthase; AGAS; ARGAs; N-acetylglutamate synthase, mitochondrial amino-acid acetyltransferase EC 2.3.1.1
<b>Gene ID</b>	162417
<b>mRNA Refseq</b>	NM_153006
<b>Protein Refseq</b>	NP_694551

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<b>MIM</b>	608300
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<b>UniProt ID</b>	Q8N159
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