

Recombinant Human NAGS Protein, His-tagged

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

SPECIFICATION

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

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

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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MIM	608300
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UniProt ID	Q8N159
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