



Recombinant Human N-acetylglutamate synthase, mitochondrial (NAGS)

Product Code	CSB-EP843136HU
Abbreviation	NAGS
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8N159
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	LR GRGGTGGARR LSCGARRRAA RGTSPGRRLS TAWSQPQPPP EEYAGADDVS QSPVAEEPSW VSPRPPVPH ESPEPPSGRS LVQRDIQAF NQCGASPGEA RHWLTQFQTC HHSADKPFV IEVDEEVKLC QQGVSSLAFA LAFLQRMDMK PLVVLGLPAP TAPSGCLSFV EAKAQLAKSC KVLVDALRHN AAAAVPFFGG GSVLRAAEPH PHASYGGIVS VETDLLQWCL ESGSIPILCP IGETAARRSV LLDSLEVTAS LAKALRPTKI IFLNNTGGLR DSSHKVLSNV NLPADLDLVC NAEWVSTKER QQMRLIVDVL SRLPHHSSAV ITAASTLLTE LFSNKGSGTL FKNAERMLRV RSLDKLDQGR LVDLVNASFG KKLRRDDYLAS LRPRLHSIYV SEGYNAAAIL TMEPVLGGTP YLDKVVSSS RQGQSGQML WECLRRDLQT LFWRSRVTNP INPWYFKHSD GSFSNKQWIF FWFGLADIRD SYELVNHAKG LPDSFHKPAS DPGS
Source	E.coli
Target Names	NAGS
Protein Names	Recommended name: N-acetylglutamate synthase, mitochondrial EC= 2.3.1.1 Alternative name(s): Amino-acid acetyltransferase Cleaved into the following 3 chains: 1. N-acetylglutamate synthase long form 2. N-acetylglutamate synthase sho
Expression Region	19-534
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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