

Full-Length

NAGK (Human) Recombinant Protein (P01)

Catalog # H00055577-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human NAGK full-length ORF (AAH01029, 1 a.a. - 344 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAIYGGVEGGGTRSEVLLVSEDGKILAEADGLSTNHWLIGTDKCVERINEMVNRKRKAGVDPL
VPLRSLGLSLSGGDQEDAGRILIEELRDRFPYLSSEYLITDAAGSIATATPDGGVVLISGTGSNCRLI
NPDGSESGCGGWGHMMGDEGSAYWIAHQAVKMFDSIDNLEAAPHDIGYVKQAMFHYFQVPDRL
GILTHLYRDFDKCRFAGFCRKIAEGAQQGDPLSRYIFRKAGEMLGRHIVAVLPEIDPVLFQGGKIGLPI
LCVGSVWKSWEELLKEGFLALTTQGREIQAQNFSSFTLMKLRHSSALGGASLGARHIGHLPLMDY
SANAIAFYSYTFS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.58

Interspecies Antigen Sequence

Mouse (92); Rat (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NAGK

Entrez GeneID[55577](#)**GeneBank Accession#**[BC001029](#)**Protein Accession#**[AAH01029](#)**Gene Name**

NAGK

Gene Alias

GNK, HSA242910

Gene Description

N-acetylglucosamine kinase

Omim ID[606828](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

N-acetylglucosamine kinase (NAGK; EC 2.7.1.59) converts endogenous N-acetylglucosamine (GlcNAc), a major component of complex carbohydrates, from lysosomal degradation or nutritional sources into GlcNAc 6-phosphate. NAGK belongs to the group of N-acetylhexosamine kinases and is a prominent salvage enzyme of amino sugar metabolism in mammals.[supplied by OMIM]

Other Designations

N-Acetylglucosamine kinase

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)