

## Product datasheet for **TP300113**

### **N acetylglucosamine kinase (NAGK) (NM\_017567) Human Recombinant Protein**

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human N-acetylglucosamine kinase (NAGK), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC200113 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MAAIYGGVEGGGTRSEVLLVSEDGKILAEADGLSTNHWLIGTDKVERINEMVNRKRKAGVDPLVPLRS  
LGLSLSGGDQEDAGRILIEELRDRFPYLSYLIITDAAGSIATATPDGGVWLISGTGSNCRLINPDGSE  
SGCGGWGHMMGDEGSAYWIAHQAVKIVFDSIDNLEAAPHDIGYVKQAMFHYFQVPDRLGILTHLYRDFDK  
CRFAGFCRKIAEGAQQGDPLSRYIFRKAGEMLRHIVAVLPEIDPVLFGKIGLPILCVGSVWKSWECLK  
EGFLLALTQGREIQAQNFSSFTLMKLRHSSALGGASLGARHIGHLLPMDYSANAIAFYSTFS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 37.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_060037](#)

**Locus ID:** 55577



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UniProt ID: [Q9UJ70](#), [A0A384N6G7](#)

RefSeq Size: 1801

Cytogenetics: 2p13.3

RefSeq ORF: 1032

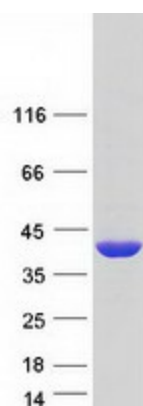
Synonyms: GNK; HSA242910

**Summary:** This gene encodes a member of the N-acetylhexosamine kinase family. The encoded protein catalyzes the conversion of N-acetyl-D-glucosamine to N-acetyl-D-glucosamine 6-phosphate, and is the major mammalian enzyme which recovers amino sugars. [provided by RefSeq, Nov 2011]

**Protein Families:** Druggable Genome

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism

### Product images:



Coomassie blue staining of purified NAGK protein (Cat# TP300113). The protein was produced from HEK293T cells transfected with NAGK cDNA clone (Cat# [RC200113]) using MegaTran 2.0 (Cat# [TT210002]).