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**Product Data Sheet**


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Product Name: NAGK Human  
 Cat. No.: GP22565  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	N-acetylglucosamine kinase; GNK; GlcNAc kinase; N-acetyl-D-glucosamine kinase; HSA242910; EC 2.7.1.59.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAAIYGG VEGGGTRSEV LLVSEDGKIL AEADGLSTNH WLIGTDKCVE RINEMVNRK RKAGVDPLVP LRSLGLSLSG GDQEDAGRIL IEELRDRFPY LSEYLITTD AAGSIATATP DGGVVLISGT GSNCRILINPD GSESGCGGWG HMMGDEGSAY WIAHQAVKIV FDSIDNLEAA PHDIGYVKQA MFHYFQVPDR LGILTHLYRD FDKCRFAGFC RKIAEGAQQG DPLSRYIFRK AGEMLGRHIV AVLPEIDPVL FQGKIGLPIL CVGSVWKSWE LLKEGFLAL TQGREIQAQN FFSSFTLMKL RHSSALGGAS LGARHIGHLL PMDYSANAIA FYSYTF		
Formulation	The NAGK solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 2mM DTT and 20% glycerol.		

**Introduction**

NAGK is a member of the eukaryotic-type N-acetylglucosamine kinase family. NAGK converts endogenous N-acetylglucosamine (GlcNAc), a key component of complex carbohydrates, from lysosomal degradation or alimentary sources into GlcNAc 6-phosphate. NAGK is a prominent salvage enzyme of amino sugar metabolism in mammals. NAGK cooperates with STK16 and LNX1 and has ManNAc kinase activity.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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NAGK Human Recombinant produced in E. coli is a single polypeptide chain containing 367 amino acids (1-344) and having a molecular mass of 39.8kDa. NAGK is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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