

NAGK Human

Description: 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.

Catalog #: PKPS-034

Synonyms: N-acetylglucosamine kinase, GNK, GlcNAc kinase, N-acetyl-D-glucosamine kinase, HSA242910, EC 2.7.1.59.

For research use only.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSMAAIYGG VEGGGTRSEV
LLVSEDGKIL AEADGLSTNH WLIGTDKCV E RINEMVNR AK RKAGVDPLVP L RSLGLSLSG
GDQEDAGRIL IEELRDRFPY LSESYLITD AAGSIATATP DGGVVLISGT GSNCR LINPD
GSESGCGGWG HMMGDEGSAY WIAHQAVKIV FDSIDNLEAA PHDIGYVKQA MFHYFQVPDR
LGILTHLYRD FD

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

The NAGK solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 2mM DTT and 20% glycerol.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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