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AR50299PU-S Human NAGK (1-344, His-tag) - Purified

Alternate names: N-acetyl-D-glucosamine kinase

Quantity: 0.1 mg

Concentration: 1mg/ml (determined by Bradford assay)

Background: NAGK (N-acetyl-D-glucosamine kinase) belongs to the eukaryotic-type N-acetylglucosamine kinase family. NAGK converts endogenous N-acetylglucosamine (GlcNAc), a major component of complex carbohydrates, from lysosomal degradation or nutritional sources into GlcNAc 6-phosphate. It is a prominent salvage enzyme of amino sugar metabolism in mammals. NAGK has been shown to interact with STK16 and LNX1. Also it has ManNAc kinase activity.

Uniprot ID: Q9UJ70

NCBI: NP_060037

GeneID: 55577

Species: Human

Source: E. coli

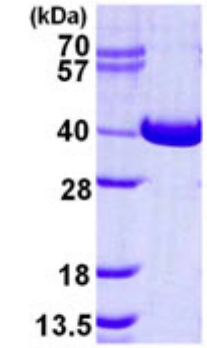
Format:
State: Liquid purified protein
Purity: >95% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl

Description: Recombinant human NAGK protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSMAAIYGG VEGGGTRSEV LLVSEDGKIL AEADGLSTNH
WLIGTDKCVE RINEMVNRAK RKAGVDPLVP LRSLGLSLSG GDQEDAGRIL IEELRDRFPY
LSESYLITTD AAGSIATATP DGGVVLISGT GSNCRLINPD GSESGCGGWG HMMGDEGSAY
WIAHQAVKIV FDSIDNLEAA PHDIGYVKQA MFHYFQVPDR LGILTHLYRD FDKCRFAGFC
RKIAEGAQQG DPLSRYIFRK AGEMLGRHIV AVLPEIDPVL FQGKIGLPIL CVGSVWKSWE
LLKEGFLLAL TQGREIQAQN FFSSFTLMKL RHSSALGGAS LGARHIGHLL PMDYSANAIA
FYSYTFS
Molecular weight: 39.8 kDa (367aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Hinderlich S, et al. (2000) Eur J Biochem 267 (11): 3301-8.Weihofen W.A., et al. (2006) J. Mol. Biol. 364:388-399

Pictures:



15% SDS-PAGE (3ug)