

# Recombinant human GNPAT1 protein

Catalog Number: ATGP0817

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-184aa

**UniProt No.**

Q96EK6

**NCBI Accession No.**

NP\_932332

**Alternative Names**

Glucosamine-phosphate N-acetyltransferase, GNPAT, Gpnat1, Phosphoglucosamine acetylase, Phosphoglucosamine transacetylase, GNA1

## PRODUCT SPECIFICATION

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**Molecular Weight**

23.1 kDa (207aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

**Purity**

&gt; 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

Glucosamine-phosphate N-acetyltransferase, also known GNPAT1, belongs to the GNA1 subfamily of the larger acetyltransferase family of proteins. It is localized to the Golgi apparatus and the endosome. It is important for uDPGlcNAc biosynthesis pathway. GNPAT1 catalyzes the synthesis of GlcNAc6P from AcCoA and GlcN6P, a step in the uDP-GlcNAc6P formation pathway. Recombinant human GNPAT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMKPDETP MFDPSLLKEV DWSQNTATFS PAISPHTPGE GLVLRPLCTA DLNRGFFKVL  
GQLTETGVVS PEQFMKSFEH MKKSGDYVVT VVEDVTLGQI VATATLIEH KFIHSCAKRG RVEDVVVSDE CRGKQLGKLL  
LSTLTLLSKK LNCYKITLEC LPQNVGFYKK FGYTVSEENY MCRRFLK

### General References

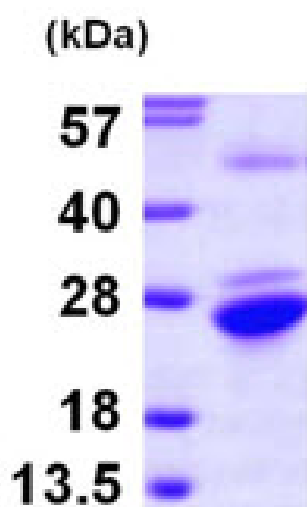
Jiang, H., et al. (2005) Plant Physiol. 138:232-242.

Mio T., et al. (2007) Microbiology. 146:1753-1758.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)