

Recombinant human GNPAT1 protein

Catalog Number: ATGP0817

PRODUCT INFORMATION

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

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

> 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

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 PAISPTHPE GLVLRPLCTA DLNRGFFKVL
GQLTETGVVS PEQFMKSFEH MKKSGDYVT VVEDVTLGQI VATATLIEH KFIHSCAKRG RVEDVVVSDE CRGKQLGKLL
LSTLTLLSKK LNCYKITLEC LPQNVGFYKK FGYTVSEENY MCRRFLK

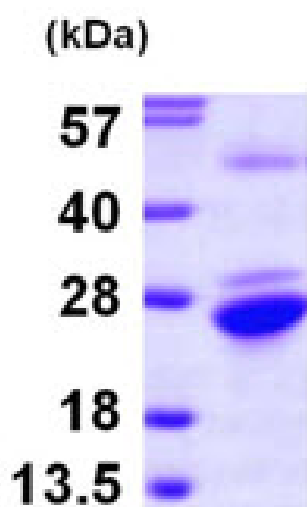
General References

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

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)