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Recombinant human GNPNAT1 protein

Catalog Number: ATGP0817

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-184aa

UniProt No.

096EK6

NCBI Accession No.

NP 932332

Alternative Names

Glucosamine-phosphate N-acetyltransferase, GNPNAT, 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 GNPNAT1, 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 uDPGIcNAc biosynthesis pathway. GNPNAT1 catalyzes the synthesis of GlcNAc6P from AcCoA and GlcN6P, a step in the uDP-GlcNAc6P formation pathway. Recombinant human GNPNAT1 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 PAISPTHPGE GLVLRPLCTA DLNRGFFKVL GQLTETGVVS PEQFMKSFEH MKKSGDYYVT VVEDVTLGQI VATATLIIEH KFIHSCAKRG RVEDVVVSDE CRGKQLGKLL LSTLTLLSKK LNCYKITLEC LPQNVGFYKK FGYTVSEENY MCRRFLK

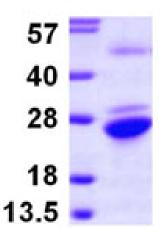
General References

Jiang, H., et al. (2005) Plant Physiol. 138:232-242. Mio T., et al. (2007) Microbiology. 146:1753-1758.

DATA



(kDa)



15% SDS-PAGE (3ug)

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

