Recombinant Human GNPNAT1, His-tagged

Cat. No. GNPNAT1-933H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GNPNAT1 protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 23.1 kDa (207aa).
Species	Human
Source	E.coli
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 UDPGlcNAc biosynthesis pathway. GNPNAT1 catalyzes the synthesis of GlcNAc6P from AcCoA and GlcN6P, a step in the UDP-GlcNAc6P formation pathway.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl.
Purity	> 90% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MGSMKPDETP MFDPSLLKEV DWSQNTATFS PAISP THPGE GLVLRPLCTA DLNRGFFKVL GQLTETGVVSPEQFMKSFEH MKKS GDYYVT VVEDVTLGQI VATATLIIEH KFIHSCAKRG RVEDVVVSDE CRGKQLGKLL LSTLTLLSKK LNCYKITLECLPQNVGFYKK FGYTVSEENY MCRRFLK.

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Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Amino sugar and nucleotide sugar metabolism; Metabolism of proteins

GENE INFORMATION

Gene Name	GNPNAT1 glucosamine-phosphate N-acetyltransferase 1 [Homo sapiens]
Synonyms	glucosamine-phosphate N-acetyltransferase 1; GNPNAT; Gpnat1; FLJ10607; GNPNAT1; glucosamine 6-phosphate N-acetyltransferase; phosphoglucosamine acetylase; phosphoglucosamine transacetylase; Phosphoglucosamine acetylase; Phosphoglucosamine transacetylase; EC 2.3.1.4; GNA1
Gene ID	64841
mRNA Refseq	NM_198066
Protein Refseq	NP_932332
UniProt ID	Q96EK6
Chromosome Location	14q22.1
Function	acyltransferase activity; monosaccharide binding; transferase activity; glucosamine 6-phosphate N-acetyltransferase activity

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