
Product Data Sheet

Product Name: GNP NAT1 Human
 Cat. No.: GP21705
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Gpnat1; GNP NAT; GNA1; EC 2.3.1.4; FLJ10607; Glucosamine-Phosphate N-Acetyltransferase 1; Phosphoglucosamine acetylase; Phosphoglucosamine transacetylase; Glucosamine 6-Phosphate N-Acetyltransferase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMKPDETP MFDPSLLKEV DWSQNTATFS PAISPTHPGE GLVLRPLCTA DLNRGFFKVL GQLTETGVVS PEQFMKSFEH MKKSGDYVVT VVEDVTLGQI VATATLIEH KFIHSCAKRG RVEDVVVSDE CRGKQLGKLL LSTLTLLSKK LNCYKITLEC LPQNVGFYKK FGYTVSEENY MCRRFLK		
Formulation	The GNP NAT1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 30% glycerol.		

Introduction

GNP NAT1 is a member of the GNA1 subfamily of the larger acetyltransferase family of proteins. GNP NAT1 is limited to the Golgi apparatus and the endosome. GNP NAT1 is vital for UDPGlcNAc biosynthesis pathway. GNP NAT1 catalyzes the synthesis of GlcNAc6P from AcCoA and GlcN6P, a step in the UDP-GlcNAc6P formation pathway.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

GNP NAT1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 207 amino acids (1-184a.a.) and having a molecular mass of 23.1KDa. GNP NAT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic

Caution: Product has not been fully validated for medical applications. For research use only.

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