

Recombinant Human GNP NAT1 293 Cell Lysate

Cat. No. GNP NAT1-5841HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for glucosamine-phosphate N-acetyltransferase 1 (GNP NAT1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.

Components

This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).

Size 0.1 mg

Storage Instruction

Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[GNPNAT1 glucosamine-phosphate N-acetyltransferase 1 \[Homo sapiens \]](#)

Official Symbol

GNPNAT1

Synonyms

GNPNAT1; glucosamine-phosphate N-acetyltransferase 1; glucosamine 6-phosphate N-acetyltransferase; FLJ10607; Gpnat1; phosphoglucosamine acetylase; phosphoglucosamine transacetylase; GNPAT;

Gene ID

[64841](#)

mRNA Refseq

[NM_198066](#)

Protein Refseq

[NP_932332](#)

UniProt ID

[Q96EK6](#)

Chromosome Location

14q22.1

Pathway

Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem; Synthesis of

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UDP-N-acetyl-glucosamine, organism-specific biosystem;

Function

glucosamine 6-phosphate N-acetyltransferase activity; monosaccharide binding;
transferase activity, transferring acyl groups;

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