

Recombinant Human GNS 293 Cell Lysate

Cat. No. GNS-5836HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glucosamine (N-acetyl)-6-sulfatase (GNS) 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

[GNS glucosamine \(N-acetyl\)-6-sulfatase \[Homo sapiens \]](#)

Official Symbol

GNS

Synonyms

GNS; glucosamine (N-acetyl)-6-sulfatase; N-acetylglucosamine-6-sulfatase; N acetylglucosamine 6 sulfatase; Sanfilippo disease IIID; glucosamine-6-sulfatase; G6S; MGC21274;

Gene ID

[2799](#)

mRNA Refseq

[NM_002076](#)

Protein Refseq

[NP_002067](#)

MIM

[607664](#)

UniProt ID

[P15586](#)

**Chromosome
Location**

12q14

Pathway

Clathrin derived vesicle budding, organism-specific biosystem; Glycosaminoglycan degradation, organism-specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Heparan sulfate degradation, organism-specific biosystem; Heparan sulfate degradation, conserved biosystem; Keratan sulfate degradation,

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organism-specific biosystem; Keratan sulfate degradation, conserved biosystem;

Function

N-acetylglucosamine-6-sulfatase activity; glycosaminoglycan binding; hydrolase activity; metal ion binding; protein binding; sulfate binding; sulfuric ester hydrolase activity;

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