

Recombinant Human GNS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GNS-6616H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GNS MS Standard C13 and N15-labeled recombinant protein (NP_002067) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The product of this gene is a lysosomal enzyme found in all cells. It is involved in the catabolism of heparin, heparan sulphate, and keratan sulphate. Deficiency of this enzyme results in the accumulation of undegraded substrate and the lysosomal storage disorder mucopolysaccharidosis type IIID (Sanfilippo D syndrome). Mucopolysaccharidosis type IIID is the least common of the four subtypes of Sanfilippo syndrome.
Molecular Mass	62.1 kDa
AA Sequence	MRLLPLAPGRLRRGSPRHLPCSPALLLLVLGGCLGVFGVAAGTRRPNVVLLLTDD QDEVLGGMTPLKKTALIGEMGMTFSSAYVPSALCCPSRASILTGYKYPHNHHVNN TLEGNCSSKSWQKIQEPNTFPAILRSMCGYQTFFAGKYLNEYGAPDAGGLEHVPLG WSYWYALEKNSKYNYTL SINGKARKHGENYSVDYLTDLANVSLDFLDYKSNFEP FFMMIATPAPHSPWTAAPQYQKAFQNVFAPRNKNFNIHGTNKHVLRQAKTPMTNS SIQFLDNAFRKRWQTLLSVDDLVEKLVKLEFTGELNNTYIFYTSDNGYHTGQFSLPI DKRQLYEFDIKVPLLVRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNKTQMDGMSL

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LPILRGASNLTWRSDVLVEYQGEGRNVTDP TCPSLSPGVSQCFPDCVCE DAYNNTY
 ACVRTMSALWNLQYCEFD DQEVFVEVYNLTADPDQITNIAKTIDPELLGKMNYRLMM
 LQSCSGPTCRTPGVFDPGYRFD PRLMFSNRGSVRTRRFSKHLLTRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name GNS glucosamine (N-acetyl)-6-sulfatase [Homo sapiens (human)]

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

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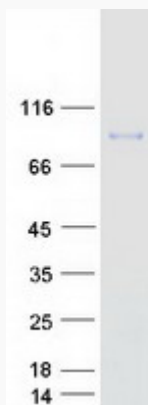
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MIM 607664

UniProt ID P15586

SDS-PAGE



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