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	MRLLPLAPGRLRRGSPRHLPSCSPALLLLVLGGCLGVFGVAAGTRRPNVVLLLTDD QDEVLGGMTPLKKTKALIGEMGMTFSSAYVPSALCCPSRASILTGKYPHNHHVVNN TLEGNCSSKSWQKIQEPNTFPAILRSMCGYQTFFAGKYLNEYGAPDAGGLEHVPLG WSYWYALEKNSKYYNYTLSINGKARKHGENYSVDYLTDVLANVSLDFLDYKSNFEP FFMMIATPAPHSPWTAAPQYQKAFQNVFAPRNKNFNIHGTNKHWLIRQAKTPMTNS SIQFLDNAFRKRWQTLLSVDDLVEKLVKRLEFTGELNNTYIFYTSDNGYHTGQFSLPI DKRQLYEFDIKVPLLVRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNKTQMDGMSL

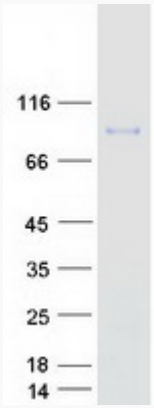
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	LPILRGASNLTWRSDVLVEYQGEGRNVTDPTCPSLSPGVSQCFPDCVCEDAYNNTY ACVRTMSALWNLQYCEFDDQEVFVEVYNLTADPDQITNIAKTIDPELLGKMNYRLMM LQSCSGPTCRTPGVFDPGYRFDPRLMFSNRGSVRTRRFSKHLLTRTRPLEQKLISE EDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue 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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MIM	607664
UniProt ID	P15586
SDS-PAGE	

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