

Recombinant Full Length Human GNS Protein, GST-tagged

Cat. No. GNS-5414HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GNS full-length ORF (NP_002067.1, 1 a.a. - 552 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	552 amino acids
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. [provided by RefSeq]
Molecular Mass	88.5 kDa
AA Sequence	<p>MRLLPLAPGRLRRGSPRHLPSCSPALLLLVLGGCLGVFGVAAGTRRPNVVLLLTDD QDEVLGGMTPLKKTALIGEMGMTFSSAYVPSALCCPSRASILTGKYPHNHHVVNN TLEGNCSSKSWQKIQEPNTFFAILRSMCGYQTFAGKYLNEYGAPDAGGLEHVPLG WSYWYALEKNSKYNYTL SINGKARKHGENYSVDYLT DVLANVSLDFLDYKSNFEP FFMMIATPAPHSPWTAAPQYQKAFQNVFAPRNKNFNIHGTNKHHLIRQAKTPMTNS SIQFLDNAFRKRWQTLLSVDDLVEKLVKRLEFTGELNNTYIFYTSDNGYHTGQFSLPI DKRQLYEFDIKVPLLVRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNKTQMDGMSL</p>

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LPILRGASNLTWRSVDLVEYQGEGRNVTDP TCPSLSPGV SQCFPDCV CEDAYNNTY
 ACVRTMSALWNLQYCEFD DQEVFVEVYNLTADPDQITNIAKTIDPELLGKMNYRLMM
 LQSCSGPTCRTPGVFDPGYRFD PRLMFSNRGSVRTRRFSKHL

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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MIM	607664
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UniProt ID	P15586
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