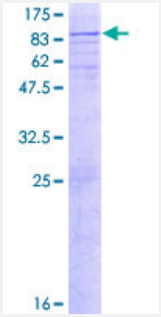
Full-Length

GNS (Human) Recombinant Protein (P01)

Catalog # H00002799-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GNS full-length ORF (NP_002067.1, 1 a.a. - 552 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MRLLPLAPGRLRRGSPRHLPSCSPALLLLVLGGCLGVFGVAAGTRRPNVVLLLTDDQDEVLGGM TPLKKTKALIGEMGMTFSSAYVPSALCCPSRASILTGKYPHNHHVVNNTLEGNCSSKSWQKIQEP NTFPAILRSMCGYQTFFAGKYLNEYGAPDAGGLEHVPLGWSYWYALEKNSKYYNYTLSINGKARK HGENYSVDYLTDVLANVSLDFLDYKSNFEPFFMMIATPAPHSPWTAAPQYQKAFQNVFAPRNKN FNIHGTNKHWLIRQAKTPMTNSSIQFLDNAFRKRWQTLLSVDDLVEKLVKRLEFTGELNNTYIFYTS DNGYHTGQFSLPIDKRQLYEFDIKVPLLVRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNKTQMDG MSLLPILRGASNLTWRSDVLVEYQGEGRNVTDPTCPSLSPGVSQCFPDCVCEDAYNNTYACVRT MSALWNLQYCEFDDQEVFVEVYNLTADPDQITNIAKTIDPELLGKMNYRLMMLQSCSGPTCRTPG VFDPGYRFDPRLMFSNRGSVRTRRFSKHLL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	88.5
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GNS

Entrez GeneID	2799
GeneBank Accession#	NM_002076.2
Protein Accession#	NP_002067.1
Gene Name	GNS
Gene Alias	G6S, MGC21274
Gene Description	glucosamine (N-acetyl)-6-sulfatase
Omim ID	252940 607664
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	N-acetylglucosamine-6-sulfatase|glucosamine-6-sulfatase

Pathway

- Glycosaminoglycan degradation
- Lysosome
- Metabolic pathways