

## Product datasheet for **TP304458L**

### GNS (NM\_002076) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glucosamine (N-acetyl)-6-sulfatase (GNS), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204458 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MRLPLAPGRLRRGSPRHLPSCSPALLLLVLGGCLGVFGVAAGTRRPNVVLLLTDDQDEVLGGMTPLKKT  
KALIGEMGMTFSSAYVPSALCCPSRASILTGKYPHNHVNNNTLEGNCSSKSWQKIQEPNTFPAILRSMC  
GYQTFAGKYLNEYGAPDAGGLEHVPLGWSYWYALEKNSKYNYTSLINGKARKHGENYSVDYLTVDLAN  
VSLDFLDYKSNFEPFFMMIATPAPHSPWTAAPQYQKAFQNVFAPRNKNFNHGTNKHHLIRQAKTPMTNS  
SIQFLDNAFRKRWQTLLSVDDLVEKLVKRLFTGELNNTYIFYTSDNGYHTGQFSLPIDKRQLYEFDIKV  
PLLVRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNKTQMDGMSLLPILRGASNLTWRSVDLVEYQGE  
RNVTDPCTPSLSPGVSQCFDPCVEDAYNNTYACVRTMSALWNLQYCEFDQEVFVEVYNLTADPDQITN  
IAKTIDPELLGKMNYRLMMLQSCSGPTCRTPGVFDPGYRFDPRLMFSNRGVSVRTRRFKHL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	58.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_002067](#)

Locus ID: 2799

UniProt ID: [P15586](#), [A0A024RBC5](#), [Q7Z3X3](#)

RefSeq Size: 5144

Cytogenetics: 12q14.3

RefSeq ORF: 1656

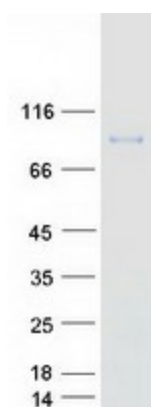
Synonyms: G6S

**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, Jul 2008]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Glycosaminoglycan degradation, Lysosome, Metabolic pathways

### Product images:



Coomassie blue staining of purified GNS protein (Cat# [TP304458]). The protein was produced from HEK293T cells transfected with GNS cDNA clone (Cat# [RC204458]) using MegaTran 2.0 (Cat# [TT210002]).