

## 32-7323: Recombinant Human N-Acetylglucosamine-6-Sulfatase/GNS (C-6His)

**Gene :** GNS  
**Gene ID :** 2799  
**Uniprot ID :** P15586

### Description

Source: Human Cells.  
MW :59.35kD.

Recombinant Human N-Acetylglucosamine-6-Sulfatase is produced by our Mammalian expression system and the target gene encoding Val37-Leu552 is expressed with a 6His tag at the C-terminus. N-Acetylglucosamine-6-Sulfatase is a member of the Sulfatase family. N-Acetylglucosamine-6-Sulfatase is required for the lysosomal degradation of the Glycosaminoglycans (GAG) Heparan Sulfate and Keratan Sulfate. N-Acetylglucosamine-6-Sulfatase hydrolyzes the 6-Sulfate groups of the N-Acetyl-D-Glucosamine 6-Sulfate units of Heparan Sulfate and Keratan Sulfate. N-Acetylglucosamine-6-Sulfatase binds 1 Calcium ion per subunit. N-Acetylglucosamine-6-Sulfatase deficiency are the cause of Mucopolysaccharidosis Type 3D (MPS3D), an inborn error leading to lysosomal accumulation of heparan sulfate. MPS3D has profound mental deterioration, hyperactivity, and relatively mild somatic manifestations.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl,10% Glycerol,pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** VFGVAAGTRRPNVVLLLTDDQDEVLGGMTPLKKTALIGEMGMTFSSAYVPSALCCPSRASILTGKYPHNHHV  
NNTLEGNCSSKSWQKIQEPNTFPAILRSMCGYQTFAGKYLNEYGAPDAGGLEHVPLGWSYWYALEKNSKYNN  
YTLSINGKARKHGENYSVDYLTDLANVSLDFLDYKSNFEPFFMMIATPAPHSPWTAAPQYQKAFQNVFAPRNL  
NFNIHGNTNKHVLRQAKTPMTNSSIQFLDNAFRKRWQTLLSVDDLVEKLVKRLFTGELNNTYIFYTSDNGYHT  
GQFSLPIDKRQLYEFDIKVPLLRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNKTQMDGMSLLPILRGASNL  
WRSDVLVEYQGEGRNVTDPTCPSLSPGVSQCFDCVCEDAYNNTYACVRTMSALWNLQYCEFDDQEVFVEV  
YNLTADPDQITNIAKTIDPELLGKMNYRLMMLQSCSGPTCRTPGVFDPGYRFDPRLMFSNRGVSRRRFSKHL  
VDHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.