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## Datasheet for ABIN7318800

### GNS Protein (His tag)

#### Overview

Quantity:	50 µg
Target:	GNS
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNS protein is labelled with His tag.

#### Product Details

Purpose:	Recombinant Human GNS Protein (His Tag)
Sequence:	Val37-Leu552
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

#### Target Details

Target:	GNS
Alternative Name:	GNS ( <a href="#">GNS Products</a> )
Background:	Background: N-Acetylglucosamine-6-Sulfatase is a member of the Sulfatase family. N-Acetylglucosamine-6-Sulfatase is required for the lysosomal degradation of the

## Target Details

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.

Synonym: N-Acetylglucosamine-6-Sulfatase, Glucosamine-6-Sulfatase, G6S, GNS

Molecular Weight: 59.4 kDa

UniProt: [P15586](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 10 % Glycerol, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.