

Recombinant Human NAGLU, His-tagged

Cat. No. NAGLU-1901H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NAGLU(Met1Trp743)fused with 6-his tag at C-terminal was expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	1-743 a.a.
Description	Human lysosomal α Nacetylglucosaminidase is a hydrolase that catalyses the removal of terminal α Nacetylglucosamine residues from heparan sulfate and heparin. Defects in this gene are the cause of mucopolysaccharidosis type IIIB (MPSIIIB), also known as Sanfilippo syndrome B. Mucopolysaccharidosis types IIIA, C, and D are caused by mutations in other genes involved in the lysosomal degradation of heparan sulfate. Continuous lysosomal accumulation of heparan sulfate results in the clinical combination of disease, which is typified by severe central nervous system degeneration. Mucopolysaccharidosis type III differs from other mucopolysaccharidoses in that patients usually exhibit mild somatic changes with minimal skeletal abnormalities.
Molecular Mass	The recombinant human NAGLU predicts a molecular mass of 81 kDa. It migrates as 70-95 kDa band in SDS-PAGE under reducing conditions.
N-terminal Sequence	Asp24

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Formulation	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
Purity	>95%, by SDSPAGE
Bio-Activity	Measured by its ability to hydrolyze 4NitrophenylNacetylαDglucosaminide. The specific activity is >900 pmol/min/µg, as measured under the described conditions.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability &Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.
Official Symbol	NAGLU

GENE INFORMATION

Gene Name	NAGLU N-acetylglucosaminidase, alpha [Homo sapiens]
Synonyms	NAGLU; N-acetylglucosaminidase, alpha; NAG; MPS3B; UFHSD; MPS-IIIB; alpha-N-acetylglucosaminidase; N-acetyl-alpha-glucosaminidase; EC 3.2.1.50; UFHSD1; Alpha-N-acetylglucosaminidase 77 kDa form; alpha N acetylglucosaminidase, lysosomal; ANAG_HUMAN; ANAG
Gene ID	4669
mRNA Refseq	NM_000263

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Protein Refseq	NP_000254
MIM	609701
UniProt ID	P54802
Chromosome Location	17q21
Pathway	Glycosaminoglycan degradation; HS-GAG degradation; Heparan sulfate degradation; Heparan sulfate/heparin (HS-GAG) metabolism; Lysosome; Metabolism; Metabolism of carbohydrates
Function	alpha-N-acetylglucosaminidase activity

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