

Recombinant Human GALNS, GST-tagged

Cat. No. GALNS-102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length GALNS (1 a.a. - 522 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes N-acetylgalactosamine-6-sulfatase which is a lysosomal exohydrolyase required for the degradation of the glycosaminoglycans, keratan sulfate, and chondroitin 6-sulfate. Sequence alterations including point, missense and nonsense mutations, as well as those that affect splicing, result in a deficiency of this enzyme. Deficiencies of this enzyme lead to Morquio A syndrome, a lysosomal storage disorder.
Molecular Mass	84.4 kDa
AA Sequence	MAAVVAATRWWQLLLVLSAAGMGASGAPQPPNILLLLMDDMGWGD LGVYGEPSR ETPNLDRMAAEGLLFPNFYSA NPLCSPSRAALLTGRLPIRNGFYTTNAHARNAYTP QEIVGGIPDSEQLLPELLKKAGYVSKIVGKWHLGHRPQFH PLKHGFDEWFGSPNCH FGPYDNKARPNI PVYRDWEMVGRYYEEFPINLKTGEANLTQIYLQEALDFIKRQARH HP FFLYWAVDATHAPVYASKPFLGTSQRGRYGD AVREIDDSIGKILELLQDLHVADN TFVFFTS DNGAALISAPEQG GSNGPFLCGKQTTFEGGMREPALAWWPGHV TAGQ VSHQLGSIMDLFTTSLALAGLTPPSDRAIDGLNLLPTLLQG RLMDRPIFYR GDTLMA ATLGQHKAHFWTWTNSWENFRQGIDFCPGQNVSGVTTHNLEDHTKLPLIFHLGRDP GE RFPLSFASAEYQEALS RITSVVQQHQEALVPAQPQLNVCNWAVMNWAPPGCEK

 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

LGKCLTPPESIPKKCLWSH

Applications ELISA; WB-Re; AP; Array

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [GALNS galactosamine \(N-acetyl\)-6-sulfate sulfatase \[Homo sapiens \(human\) \]](#)

Official Symbol GALNS

Synonyms GALNS; GAS; MPS4A; GalN6S; GALNAC6S; galactosamine (N-acetyl)-6-sulfate sulfatase; N-acetylgalactosamine-6-sulfatase; chondroitinase; galNAc6S sulfatase; chondroitinsulfatase; galactose-6-sulfate sulfatase; N-acetylgalactosamine-6-sulfate sulfatase; NP_000503.1; EC 3.1.6.4

Gene ID [2588](#)

mRNA Refseq [NM_000512](#)

Protein Refseq [NP_000503](#)

MIM [612222](#)

UniProt ID [P34059](#)

Chromosome Location 16q24.3

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Pathway	Chondroitin sulfate degradation; Keratan sulfate degradation; Lysosome
Function	N-acetylgalactosamine-4-sulfatase activity; N-acetylgalactosamine-6-sulfatase activity; metal ion binding

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