

Recombinant Human GALNS, GST-tagged

Cat. No. GALNS-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GALNS (423 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	36.74 kDa
AA Sequence	NVSGVTTHNLEDHTKLPLIFHLGRDPGERFPLSFASAEYQEALSRITSVVQQHQEAL VPAQPQLNVCNWAVMNWA PPGCEKLGKCLTPPESIPKKCLWSH
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

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