

Recombinant Human GALNS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GALNS-4692H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GALNS MS Standard C13 and N15-labeled recombinant protein (NP_000503) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	58 kDa
AA Sequence	MAAVVAATRWWQLLLVLSAAGMGASGAPQPPNILLMLDDMGWGD LGVYGEPSR ETPNLDRMAAEGLLFPNFYSANPLCSPSRAALLTGRLPIRNGFYTTNAHARNAYTPQ EIVGGIPDSEQLLPELLKKAGYVSKIVGKWHLGHRPQFHPLKHGFDEWFGSPNCHF GPYDNKARPNI PVYRDWEMVGRYYEEFPINLKTGEANLTQIYLQEALDFIKRQARHH PFFLYWAVDATHAPVYASKPFLGTSQRGRYGDVREIDDSIGKILELLQDLHVADNT FVFFTSDN GAALISAPEQGGSN GPFLCGKQTTFEGGMREPALAWWPGHV TAGQVS HQLGSIMDLFTTSLAAGLTTPPSDRAIDGLNLLPTLLQGRLMDRPIFYR GDTLMAAT LGQHKAHFWTWTNSWENFRQ GIDFCPGQNVSGVTTHNLEDHTKLPLIFHLGRDPG

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ERFPLSFASAEYQEALSRITSVVQQHQEALVPAQPQLNVCNWAVMNWAPPGCEKL
GKCLTPPESIPKKCLWSHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol GALNS

Synonyms GALNS; galactosamine (N-acetyl)-6-sulfate sulfatase; N-acetylgalactosamine-6-sulfatase; GALNAC6S; GAS; Morquio syndrome; mucopolysaccharidosis type IVA; chondroitinase; galNAc6S sulfatase; chondroitinsulfatase; galactose-6-sulfate sulfatase; N-acetylgalactosamine-6-sulfate sulfatase; MPS4A; FLJ17434; FLJ42844; FLJ98217;

Gene ID 2588

mRNA Refseq NM_000512

Protein Refseq NP_000503

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MIM	612222
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UniProt ID	P34059
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