

Active Recombinant Human GALNS, HIS-tagged

Cat. No. GALNS-111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GALNS recombinant protein, Ala27-His522, with an N-terminal 6-His tag, was expressed in baculovirus expression system.
Species	Human
Source	Sf21 Cells
ProteinLength	27-522 a.a.
Description	This gene encodes N-acetylgalactosamine-6-sulfatase which is a lysosomal exohydro lase required for the degradation of the glycosaminoglycans, keratan sulfate, and cho ndroitin 6-sulfate. Sequence alterations including point, missense and nonsense muta tions, as well as those that affect splicing, result in a deficiency of this enzyme. Defici encies of this enzyme lead to Morquio A syndrome, a lysosomal storage disorder.
Predicted N Terminal	His & Thr56
Form	Supplied as a 0.2 µ filtered solution in Tris and NaCl. See Certificate of Analysis for details.
Bio-activity	Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS).
Molecular Mass	Predicted Molecular Mass:56 kDaSDS-PAGE:53-59 kDa, reducing conditions
Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.

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Purity	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Storage	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.
GENE INFORMATION	
Gene Name	GALNS galactosamine (N-acetyl)-6-sulfatase [Homo sapiens (human)]
Official Symbol	GALNS
Synonyms	GAS; MPS4A; GalN6S; GALNAC6S; N-acetylgalactosamine-6-sulfatase; chondroitinase; galNAc6S sulfatase; chondroitinsulfatase; galactose-6-sulfate sulfatase; N-acetylgalactosamine-6-sulfate sulfatase; galactosamine (N-acetyl)-6-sulfate sulfatase
Gene ID	2588
mRNA Refseq	NM_000512
Protein Refseq	NP_000503
MIM	612222
UniProt ID	P34059
Chromosome Location	16q24.3
Pathway	Chondroitin sulfate degradation, organism-specific biosystem; Chondroitin sulfate

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degradation, conserved biosystem; Glycosaminoglycan degradation, conserved biosystem

Function

N-acetylgalactosamine-4-sulfatase activity; N-acetylgalactosamine-6-sulfatase activity; sulfuric ester hydrolase activity

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