Recombinant Human GALNS 293 Cell Lysate

Cat. No. GALNS-6040HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for galactosamine (N-acetyl)-6-sulfate sulfatase (GALNS) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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

Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	GALNS galactosamine (N-acetyl)-6-sulfate sulfatase [Homo sapiens]
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
MIM	612222
UniProt ID	P34059
Chromosome Location	16q24.3
Pathway	Chondroitin sulfate degradation, organism-specific biosystem; Chondroitin sulfate degradation, conserved biosystem; Glycosaminoglycan degradation, organism-

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	specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Keratan sulfate degradation, organism-specific biosystem; Keratan sulfate degradation, conserved biosystem; Lysosome, organism-specific biosystem;
Function	N-acetylgalactosamine-4-sulfatase activity; N-acetylgalactosamine-6-sulfatase activity; hydrolase activity; metal ion binding; sulfuric ester hydrolase activity;

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