

Recombinant Human ARSB therapeutic protein(Galsulfase)

Cat. No. ARSB-P038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human N-acetylgalactosamine 4-sulfatase is a variant form of the polymorphic human enzyme N-acetylgalactosamine 4-sulfatase of recombinant?DNA origin. It is a glycoprotein with a molecular weight of approximately 56 kD. The recombinant protein is comprised of 495 amino acids and contains six asparagine-linked glycosylation sites, four of which carry a bis mannose-6-phosphate manose7 oligosaccharide for specific cellular recognition. Post-translational modification of Cys53 produces the catalytic amino acid residue Ca-formylglycine, which is required for enzyme activity and is conserved in all members of the sulfatase enzyme family.
Species	Human
ProteinLength	495 aa
Description	It is a lysosomal hydrolase that catalyzes the cleavage of the sulfate ester from terminal N-acetylgalactosamine 4-sulfate residues of GAG chondroitin 4-sulfate and dermatan sulfate. Increased catabolism of GAG in turn reduces systemic dermatan sulfate accumulation, thereby reducing the primary symptoms of MPS VI.
Molecular Mass	56 kDa
AA Sequence	SGAGASRPPHLVFLADDLGWNDVGFHGSRI RTPHLDALAAGGVLLDNYYTQPLCT PSRSQLLTGRYQIRT GLQHQIIWPCQPSCVPLDEKLLPQLLKEAGYTTHMVGKWHL GMYRKECLPTRRGFDTYFGYLLGSEDYYSH ERCTLIDALNVTRCALDFRDGEEVAT GYKNMYSTNIFTKRAIALITNHPPEKPLFLYLALQSVHEPLQVPE EYLKPYDFIQDKN

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RHHYAGMVSLMDEAVGNVTAALKSSGLWNNTVFIFSTDNGGQTLAGGNNWPLRGR
 KWS LWEGGVRGVGFVASPLLKQKGVKNRELIHISDWLPTLVKLARGHTNGTKPLD
 GFDVWKTISEGSPSPRIEL LHNIDPNFVDSSPCPRNSMAPAKDDSSLPEYSAFNTSV
 HAAIRHGNWKLLTGYPGCGYWFPSPSYN VSEIPSSDPPTKTLWLFIDIDRDPEERH
 DLSREYPHIVTKLLSRLQFYHKHSVPVYFPAQDPRCDPKATGVW GPWM

Endotoxin < 0.1 EU per µg of the protein

Purity >95%

Alias ASB; G4S; MPS6; Galsulfase

GENE INFORMATION

Gene Name [ARSB arylsulfatase B \[Homo sapiens \]](#)

Official Symbol [ARSB](#)

Synonyms ASB; G4S; MPS6; arylsulfatase B

Gene ID [411](#)

mRNA Refseq [NM_000046](#)

Protein Refseq [NP_000037](#)

MIM [611542](#)

UniProt ID [P15848](#)

Chromosome 5q14.1

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Location	
Pathway	CS/DS degradation, organism-specific biosystem; Chondroitin sulfate degradation, conserved biosystem; Glycosaminoglycan degradation, organism-specific biosystem
Function	N-acetylgalactosamine-4-sulfatase activity; N-acetylgalactosamine-4-sulfatase activity; arylsulfatase activity

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