

# Recombinant Full Length Human ARSB Protein, C-Flag-tagged

**Cat. No.** ARSB-1862HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human ARSB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Arylsulfatase B encoded by this gene belongs to the sulfatase family. The arylsulfatase B homodimer hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondroitin sulfate, and dermatan sulfate. The protein is targeted to the lysosome. Mucopolysaccharidosis type VI is an autosomal recessive lysosomal storage disorder resulting from a deficiency of arylsulfatase B. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 56 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGPRGAASLPRGPGPRRLLLPVVLPLLLLLLLAPPGSGAGASRPPHLVFLADDLGW<br>NDVGFGHSRIRTP HLDALAAGGVLLDNYYTQPLCTPSRSQLLTGRYQIRTGLQHQQII<br>WPCQPSCVPLDEKLLPQLLKEAGYTT HMVGKWHLGMYRKECLPTRRGFDITYFGYL<br>LGSEDIYYSHERCTLIDALNVTRCALDFRDGEEVATGYKNMY STNIFTKRAIALITNHP<br>PEKPLFLYLALQSVHEPLQVPEEYLKPYDFIQDKNRHHYAGMVSLMDEAVGNV TAA<br>LKSSGLWNNTVFIFSTDNGGQTLAGGNNWPLRGRKWSLWEGGVRGVGFVASPLLK<br>QKGVKNRELIHI SDWLPTLVKLARGHTNGTKPLDGFVWKTISEGSPSPRIELLHNID                                                |

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PNFVDSSPCPRNSMAPAKDDSSLP EYSAFNTSVHAAIRHGNWKLLTGYPGCGYWF  
PPPSQYNVSEIPSSDPPTKTLWLFDIDRDPEERHDLRSRE YPHIVTKLLSRLQFYHKK  
SVPVYFPAQDPRCDPKATGVWGPWM TRTRPLEQKLISEEDLAANDILDYKDDDDK  
V

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome                                                                                                                              |
| <b>Protein Pathways</b> | Glycosaminoglycan degradation, Lysosome, Metabolic pathways                                                                                   |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

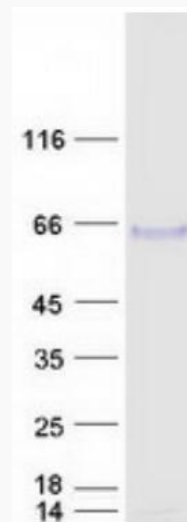
|                        |                                               |
|------------------------|-----------------------------------------------|
| <b>Gene Name</b>       | ARSB arylsulfatase B [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | ARSB                                          |
| <b>Synonyms</b>        | ASB; G4S; MPS6                                |

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|-----------------------|-------------|
| <b>Gene ID</b>        | 411         |
| <b>mRNA Refseq</b>    | NM_000046.5 |
| <b>Protein Refseq</b> | NP_000037.2 |
| <b>MIM</b>            | 611542      |
| <b>UniProt ID</b>     | P15848      |



Coomassie blue staining of purified ARSB protein.