

## Active Recombinant Human ARSB, His-tagged

**Cat. No.** ARSB-1062H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ARSB(Ser37-Met533), fused with a C-terminal 10-His tag, was expressed in CHO Cells.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	37-533 a.a.
<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>Predicted N Terminal</b>	Ser37
<b>Form</b>	Supplied as a 0.2 µ filtered solution in Tris and NaCl.
<b>Bio-activity</b>	Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS). The specific activity is >3,000 pmol/min/g.
<b>Molecular Mass</b>	Predicted Molecular Mass: 57 kDa SDS-PAGE: 80 kDa, reducing conditions

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	< 1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	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

<b>Gene Name</b>	ARSB arylsulfatase B [ Homo sapiens (human) ]
<b>Official Symbol</b>	ARSB
<b>Synonyms</b>	ARSB; arylsulfatase B; ASB; G4S; MPS6; N-acetylgalactosamine-4-sulfatase; NP_000037.2; EC 3.1.6.12; NP_942002.1
<b>Gene ID</b>	411
<b>mRNA Refseq</b>	NM_000046
<b>Protein Refseq</b>	NP_000037
<b>MIM</b>	611542
<b>UniProt ID</b>	P15848
<b>Chromosome Location</b>	5q14.1
<b>Pathway</b>	CS/DS degradation; Chondroitin sulfate degradation; Chondroitin sulfate/dermatan sulfate metabolism

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Function**

N-acetylgalactosamine-4-sulfatase activity; arylsulfatase activity; metal ion binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA