

Active Recombinant Human ARSB, His-tagged

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

SPECIFICATION

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

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Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
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	ARSB arylsulfatase B [Homo sapiens (human)]
Official Symbol	ARSB
Synonyms	ARSB; arylsulfatase B; ASB; G4S; MPS6; N-acetylgalactosamine-4-sulfatase; NP_000037.2; EC 3.1.6.12; NP_942002.1
Gene ID	411
mRNA Refseq	NM_000046
Protein Refseq	NP_000037
MIM	611542
UniProt ID	P15848
Chromosome Location	5q14.1
Pathway	CS/DS degradation; Chondroitin sulfate degradation; Chondroitin sulfate/dermatan sulfate metabolism

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Function

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

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