

## Recombinant Human ARSG, His-tagged

Cat. No. ARSG-7103H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human ARSG protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	17-525aa
<b>Description</b>	ARSG belongs to the sulfatase enzyme family. Sulfatases hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules. This protein displays arylsulfatase activity at acidic pH, as is typical of lysosomal sulfatases, and has been shown to localize in the lysosomes. Alternatively spliced transcript variants have been found for this gene.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	57kDa (532aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MSGFLYPLV DFCISGKTRG QKPNFVIILA DDMGWGDLGA NWAETKDTAN LDKMASEGMR FVDFHAAAST CSPSRASLLT GRLGLRNGVT RNFAVTSVGG LPLNETTLAE VLQQAGYVTG IIGKWHLGHH GSYHPNFRGF DYYFGIPYSH DMGCTDTPGY NHPPCPACPQ GDGPSRNLQR DCYTDVALPL YENLNIVEQP VNLSSLAQKY AEKATQFIQR ASTSGRPFL

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YVALAHMHVP LPVTQLPAAPRGRSLYGAGL WEMDSLVGQI KDKVDHTVKE  
 NTFLWFTGDN GPWAQKCELA GSVGPFSTGFW QTRQGGSPAK QTTWEGGHRV  
 PALAYWPGRV PVNVTSTALL SVLDIFPTVV ALAQASLPQG RRFDGVVDVSE  
 VLFGRSQPGH RVLFHPNSGA AGEFGALQTV RLERYKAFYI  
 TGGARACDGGSTGPELQHKFP LIFNLEDDTA EAVPLERGGGA EYQAVLPEVR  
 KVLADVLQDI ANDNISSADY TQDPSVTPCC NPYQIACRCQ AA

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml

## GENE INFORMATION

**Gene Name** [ARSG arylsulfatase G \[ Homo sapiens \]](#)

**Official Symbol** ARSG

**Synonyms** ARSG; arylsulfatase G; KIAA1001; ASG;

**Gene ID** [22901](#)

**mRNA Refseq** [NM\\_014960](#)

**Protein Refseq** [NP\\_055775](#)

**MIM** [610008](#)

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<b>UniProt ID</b>	Q96EG1
<b>Chromosome Location</b>	17q24
<b>Pathway</b>	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;
<b>Function</b>	arylsulfatase activity; NOT arylsulfatase activity; arylsulfatase activity; hydrolase activity; metal ion binding;

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