

Recombinant Human ARSG, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human ARSG protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	17-525aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	57kDa (532aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSGGFLYPLV DFCISGKTRG QKPNFVIILA DDMGWGDLGA NWAETKDTAN LDKMASEGMR FVDFHAAAST CSPSRASLLT GRLGLRNGVT RNFAVTSVGG LPLNETTLAE VLQQAGYVTG IIGKWHLGHH GSYHPNFRGF DYYFGIPYSH DMGCTDTPGY NHPPCPACPQ GDGPSRNLQR DCYTDVALPL YENLNIVEQP VNLSSLAQKY AEKATQFIQR ASTSGRPFL

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

YVALAHMHVP LPVTQLPAAPRGRSLYGAGL WEMDSLVGQI KDKVDHTVKE
 NTFWFTGDN GPWAQKCELA GSVGPFTHFW QTRQGGSPAK QTTWEGGHRV
 PALAYWPGRV PVNVTSTALL SVLDIFPTVV ALAQASLPQG RRFDGVDVSE
 VLFGRSQPGH RVLHPNSGA AGEFGALQTV RLERYKAFYI
 TGGARACDGGTGPQLQHKFP LIFNLEDDTA EAVPLERGGG 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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UniProt ID	Q96EG1
Chromosome Location	17q24
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;
Function	arylsulfatase activity; NOT arylsulfatase activity; arylsulfatase activity; hydrolase activity; metal ion binding;

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