

# Recombinant Full Length Human ARSG Protein, GST-tagged

**Cat. No.** ARSG-1172HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ARSG full-length ORF ( NP_055775.2, 1 a.a. - 525 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 525 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | The protein encoded by this gene 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. [provided by RefSeq, Jun 2012] |
| <b>Molecular Mass</b>   | 83.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MGWLFLKVLL AGVSFSGFLY PLVDFCISGK TRGQKPNFVI ILADDMGWGD<br>LGANWAETKD TANLDKMASE GMRFVDFHAA ASTCSPSRAS LLTGRLGLRN<br>GVTRNFAVTS VGGLPLNETT LAEVLQQAGY VTGIIGKWHL GHHGSYHPNF<br>RGFDYYFGIP YSHDMGCTDT PGYNHPPCPA CPQGDGPSRN LQRDCYTDVA<br>LPLYENLNIV EQPVNLSSLA QKYAEKATQF IQRASTSGRP FLLYVALAHM<br>HVPLPVTQLP AAPRGRSLYG AGLWEMDSLV GQIKDKVDHT VKENTFLWFT                                                                                                                                                                                                   |

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GDNGPWAQKC ELAGSVGPFT GFWQTRQGGG PAKQTTWEGG HRVPALAYWP  
 GRVPVNVST ALLSVLDIFP TVVALAQASL PQGRRFDGVD VSEVLFGRSQ  
 PGHRVLFHPN SGAAGEFGAL QTVRLERYKA FYITGGARAC DGSTGPELQH  
 KFPLIFNLED DTAEAVPLER GGAEQAVLP EVRKVLADVL QDIANDNISS  
 ADYTQDPSVT PCCNPYQIAC RCQAA

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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

**UniProt ID**

Q96EG1

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