



Recombinant Human Arylsulfatase G (ARSG)

Product Code	CSB-EP002150HU-B
Abbreviation	ARSG
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96EG1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	GFLY PLVDFCISGK TRGQKPNFVI ILADDMGWGD LGANWAETKD TANLDKMASE GMRFVDFHAA ASTCSPSRAS LLTGRLGLRN GVTRNFAVTS VGGLPLNETT LAEVLQQAGY VTGIIGKWHL GHHGSYHPNF RGFDDYYFGIP YSHDMGCTDT PGYNHPPCPA CPQGDGPSRN LQRDCYTDVA LPLYENLNIV EQPVNLSSLA QKYAEKATQF IQRASSTGRP FLLYVALAHM HVPLPVTQLP AAPRGRSLYG AGLWEMDSLIV GQIKDKVDHT VKENTFLWFT GDNGPWAQKC ELAGSVGPFT GFWQTRQGGG PAKQTTWEGG HRVPALAYWP GRVPVNVST ALLSVLDIFP TVVALAQASL PQGRRFDGVD VSEVLFGRSQ PGHRVLFHPN SGAAGEFGAL QTVRLERYKA FYITGGARAC DGSTGPELQH KFPLIFNLED DTAEAVPLER GGAEYQAVLP EVRKVLADVL QDIANDNISS ADYTQDPSVT PCCNPYQIAC RCQAA
Source	E.coli
Target Names	ARSG
Protein Names	Recommended name: Arylsulfatase G Short name= ASG EC= 3.1.6.-
Expression Region	17-525
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Sulfatases, such as ARSG, 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 gene, a novel arylsulfatase, has activity toward pseudosubstrates including p-nitrocatechol sulfate and 4-methylumbelliferyl sulfate. Activity is competitively inhibited by phosphate. The unprocessed protein is active as a 63-kDa monomer and demonstrates an acidic pH optimum as typically seen for lysosomal sulfatases. The protein accumulates within lysosomes and is also a glycoprotein that binds specifically to mannose 6-phosphate receptors.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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