Recombinant human Arylsulfatase G/ARSG protein

Catalog Number: ATGP1885

PRODUCT INFORMATION

Expression system
E.coli

Domain
17-525aa

UniProt No.
Q96EG1

NCBI Accession No.
NP_055775

Alternative Names
Arylsulfatase G

PRODUCT SPECIFICATION

Molecular Weight
57 kDa (532aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human ARSG protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

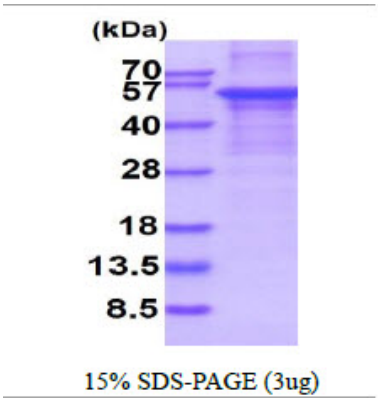
MGSSHHHHHH SSGLVPRGSH MGSGFLYPLV DFCISGKTRG QKPNFVIILA DDMGWGDLGA NWAETKDTAN LDKMASEGMR FVDFHAAAST CSPSRASLLT GRLGLRNGVT RNFAVTSVGG LPLNETTLAE VLQQAGYVTG IIGKWHLGHH GSYHPNFRGF DYYFGIPYSH DMGCTDTPGY NHPPCPACPQ GDGPSRNLQR DCYTDVALPL YENLNIVEQP VNLSSLAQKY AEKATQFIQR ASTSGRPFLL YVALAHMHVP LPVTQLPAAP RGRSLYGAGL WEMDSLVGQI KDKVDHTVKE NTFLWFTGDN GPWAQKCELA GSVGPFTGFW QTRQGGSPAK QTTWEGGHRV PALAYWPGRV PVNVTSTALL SVLDIFPTVV ALAQASLPQG RRFDGVDVSE VLFGRSQPGH RVLFHPNSGA AGEFGALQTV RLERYKAFYI TGGARACDGS TGPELQHKFP LIFNLEDDTA EAVPLERGGA EYQAVLPEVR KVLADVLQDI ANDNISSADY TQDPSVTPCC NPYQIACRCQ AA

General References

Frese MA, Schulz S, et al. (2008). J Biol Chem. 283(17):11388-95.
Hong KW, Go MJ, et al. (2010). J Hum Hypertens. 24(6):367-72.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.