

ARSG, 17-525aa, Human, His tag, E.coli

Cat.NO.: TP01238

3th Edition

Synonyms: Arylsulfatase G, Arylsulfatase G

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.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight: 57kDa (532aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSGFLYPLVDFCISGKTRGQKPNFVILADDMGWGD LGANWAETKDTANLDKM
ASEGMRFVDFHAAASTCSPSRASLLTGRLGLRNGVTRNFAVTSVGGPLNETTLAEVLQQAGYVTGIIGKWHLGHH
GSYHPNFRGFDYYFGIPYSHDMGCTDTPGYNHPPCPAC PQGDGPSRNLQRDCYTDVALPLYENLNIVEQP VNLSS
LAQKYAEKATQFIQRASTSGRPFLLYVALAHMHVPLPVTQLPAAPRGRSLYGAGLWEMDSL VGQIKDKVDHTVKEN
TFLWFTGDNGPWAQKCELAGSVGPFTGFWQTRQGGSPAKQTTWEGGHRVPALAYWPGRVPVNV TSTALLSVLD
IFPTVVALAQASLPQGRFDGVDVSEVLFGRSQPGHRVLFHPNSGAAGEFGALQTVRLERYKAFYITGGARACDG
STGPELQHKFPLIFNLEDDTAEAVPLERGGAEYQAVLPEVRKVLADVLQDIANDNISSADY TQDPSVTPCCNPYQIA
CRCQAA

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.