

Recombinant Human arylsulfatase A, His-tagged

Cat. No. ARSA-572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARSA, 21-509aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	21-509 a.a.
Description	ARSA hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants have been described for this gene. Recombinant human ARSA 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 Mass	54.3kDa (512aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSRPPNIVL IFADDLGYGD LGCYGHPSSST TPNLDQLAAG GLRFTDFYVP VSLCTPSRAA LLTGRLPVRL GMYPGVLVPS SRGGLPLEEV TVAEVLAARG YLTGMAGKWH LGVGPEGAFL PPHQGFRFL GIPYSHDQGP CQNLTCFPPA TPCDGGCDQG LVPIPLLNL SVEAQPPWLP GLEARYMAFA HDLMADAQRQ DRPFLLYYAS HHTHYPQFSG QSFAERSGRG PFGDSLMELE AAVGTLMTAI GDLGLLEETL VIFTADNGPE TMRMSRGGCS GLLRCGKGTT YEGGVREPAL AFWPGHIAPG VTHELASSLD LLPTLAALAG

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APLPNVTLDG FDLSPLLLGT GKSPRQSLFF YPSYPDEV RG VFAVRTGKYK
 AHFFTQGSAH SDTTADPACH ASSSLTAHEP PLYDLSKDP GENYNLLGGV
 AGATPEVLQA LKQLQLLKAQ LDAAVTFGPS QVARGEDPAL QICCHPGCTP
 RPACCHCPDP HA

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ARSA arylsulfatase A \[Homo sapiens \]](#)

Official Symbol ARSA

Synonyms ARSA; arylsulfatase A; metachromatic leucodystrophy; ASA; cerebroside-sulfatase; MLD;

Gene ID [410](#)

mRNA Refseq [NM_000487](#)

Protein Refseq [NP_000478](#)

MIM [607574](#)

UniProt ID [P15289](#)

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Chromosome Location	22q13.31-qter
Pathway	Glycosphingolipid metabolism, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem;
Function	arylsulfatase activity; calcium ion binding; cerebroside-sulfatase activity; hydrolase activity; sulfuric ester hydrolase activity;

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