

Recombinant Human arylsulfatase A, His-tagged

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

SPECIFICATION

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| 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 | <p>MGSSHHHHHH SSGLVPRGSH MGSRPPNIVL IFADDLGYGD LGCYGHPSST TPNLDQLAAG GLRFTDFYVP VSLCTPSRAA LLTGRLPVRM GMYPGVLVPS SRGGLPLEEV TVAEVLAARG YLTGMAGKWH LGVGPEGAFI PPHQGFHRFL GIPYSHDQGP CQNLTCFPPA TPCDGGCDQG LVPIPLLNL SVEAQPPWLP GLEARYMAFA HDLMADAQRQ DRPFLLYYAS HHTHYPQFSG QSFAERSGRG PFGDSLMEID AAVGTLMTAI GDLGLEETL VIFTADNGPE TMRMSRGGCS GLLRCGKGT YEGGVREPAL AFWPGHIAPG VTHELASSLD LLPTLAALAG</p> |

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APLPNVTLDG FDLSPLLLGT GKSPRQSLFF YPSYPDEVGRG 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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