

Active Recombinant Human ARSA Protein (21-509), C-His-tagged

Cat. No. ARSA-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARSA produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 498 amino acids (21-509a.a.) and having a molecular mass of 53.0kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). ARSA is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
ProteinLength	21-509
Description	The protein encoded by this gene 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.
Bio-activity	Specific activity is > 2,500 pmol/min/μg, and defined as the amount of enzyme that hydrolyze 4-Nitrocatechol at pH 5.0 at 37 centigrade.
Molecular Mass	53.0 kDa
AA Sequence	ADPRPPNIVLIFADDLGYGDLGCGHPSSTTPNLDQLAAGGLRFTDFYVPVSLCTPS

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RAALLTGRLPVRMGMYPGVLVPSSRGGLPLEEVTVAEVLAAARGYLTGMAGKWHLG
VGPEGAFLPPHQGFHRFLGIPYSHDQGPCQNLTCFPPATPCDGGCDQGLVPIPLLA
NLSVEAQPPWLPGLEARYMAFAHDLMAAQRQDRPFFLYYASHHHTYPQFSGQSF
AERSGRGPFPGDSLMELDAAVGTLMTAIGDLGLEETLVIFTADNGPETMRMSRGGC
SGLLRGCGKGTTYEGGVREPALAFWPGHIAPGVTHELASSDLLPTLAALAGAPLPNV
TLDGFDLSPLLLGTGKSPRQSLFFYPSYPDEVRGVFAVRTGKYKAHFFTQGSAHSD
TTADPACHASSSLTAHEPPLLYDLSKDPGENYNLLGGVAGATPEVLQALKQLQLLKA
QLDAAVTFGPSQVARGEDPALQICCHPGCTPRPACCHCPDPAHHHHHHH.

Purity Greater than 95.0% as determined by SDS-PAGE.

Notes Our products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Storage Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Concentration 0.25 mg/mL

Storage Buffer Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

GENE INFORMATION

Gene Name ARSA arylsulfatase A [Homo sapiens (human)]

Official Symbol ARSA

Synonyms ARSA; arylsulfatase A; ASA; MLD; arylsulfatase A; cerebroside-sulfatase; epididymis secretory sperm binding protein; EC 3.1.6.8

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Gene ID	410
mRNA Refseq	NM_000487
Protein Refseq	NP_000478
MIM	607574
UniProt ID	P15289

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