

# Recombinant Human ARSA Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ARSA-1274H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | ARSA MS Standard C13 and N15-labeled recombinant protein (NP_001078894) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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.                                                                                                                                     |
| <b>Molecular Mass</b>   | 53.81 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MSMGAPRSLLLALAAGLAVARPPNIVLIFADDLGYGDLGCGYGHPSSTTPNLDQLAAG<br>GLRFTDFYVPVSLCTPSRAALLTGRLPVRMGMYPGVLPSSRGGLPLEEVTVAEVL<br>AARGYLTGMAGKWHLGVGPEGAFLPPHQGFHRFLGIPYSHDQGPCQNLTCFPPAT<br>PCDGGCDQGLVPIPLLANSVEAQQPWLPGLEARYMAFAHDLMAAQRQDRPFLL<br>YYASHHHTHPYQFSGQSFAERSGRGPFGLSLMELDAAVGTLMTAIGDLGLLEETLVIF<br>TADNGPETMRMSRGGCSGLLRCGKGTTYEGGVREPALAFWPGHIAPGVTHELASS<br>LDLLPTLAALAGAPLPNVTLDGFDLSPLLLGTGKSPRQSLFFYPSYPDEVRGVFAVRT<br>GKYKAHFFTQGSASDSTTADPACHASSSLTAHEPPLLYDLKDPGENYNLLGGVAG |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
|                       | ATPEVLQALKQLQLLKAQLDAAVTFGPSQVARGEDPALQICCHPGCTPRPACCHCP<br>DPHATRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                     |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions.      |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                     |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                                   |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                         |

## GENE INFORMATION

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ARSA arylsulfatase A [ Homo sapiens (human) ]                                         |
| <b>Official Symbol</b> | ARSA                                                                                  |
| <b>Synonyms</b>        | ARSA; arylsulfatase A; metachromatic leucodystrophy; ASA; cerebroside-sulfatase; MLD; |
| <b>Gene ID</b>         | 410                                                                                   |
| <b>mRNA Refseq</b>     | NM_001085425                                                                          |
| <b>Protein Refseq</b>  | NP_001078894                                                                          |
| <b>MIM</b>             | 607574                                                                                |

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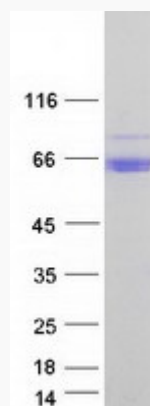
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UniProt ID

P15289

SDS-PAGE

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