

## Human ARSA ELISA Kit | ARSA elisa kit

Human ARSA PicoKine ELISA Kit

CATALOG #  
**AAA125284**

REACTIVITY  
**Human**

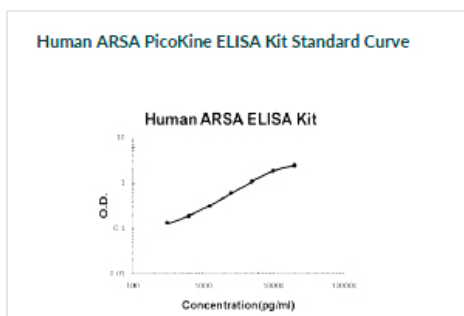
### PRODUCT SYNONYMS

ARSA; Human ARSA PicoKine ELISA Kit; Human ARSA; Arylsulfatase A; ASA; Cerebroside-sulfatase; ARSA elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                |
| Specificity             | Natural and recombinant Human ARSA                                                                                                                   |
| Sequence Length         | 509                                                                                                                                                  |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA, citrate)                                                                                   |
| Detection Range         | 312pg/ml-20000pg/ml                                                                                                                                  |
| Sensitivity             | <50pg/ml                                                                                                                                             |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.    |
| Inter-assay Precision   | Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.                                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Related Product Information for ARSA elisa kit | Principle of the Assay: The Picokine™ Human ARSA Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human ARSA with a 96-well strip plate that is pre-coated with antibody specific for ARSA. The detection antibody is a biotinylated antibody specific for ARSA. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human ARSA with immunogen: Expression system for standard: NSO, Immunogen sequence: R19-A507. The kit is analytically validated with ready to use reagents. To measure Human ARSA, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human ARSA in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human ARSA in the sample.!!Background/Introduction: Arylsulfatase A (or cerebroside-sulfatase) is an enzyme that breaks down sulfatides, namely cerebroside 3-sulfate into cerebroside and sulfate. In humans, arylsulfatase A is encoded by the ARSA gene. It is mapped to 22q13.33. 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. |
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NCBI AND UNIPROT INFORMATION

|                                  |                           |
|----------------------------------|---------------------------|
| NCBI GI #                        | 313569791                 |
| NCBI GeneID                      | 410                       |
| NCBI Accession #                 | NP_000478.3               |
| NCBI GenBank Nucleotide #        | NP_000478.3               |
| UniProt Accession #              | P15289                    |
| NCBI Official Full Name          | arylsulfatase A isoform a |
| NCBI Official Synonym Full Names | arylsulfatase A           |
| NCBI Official Symbol             | ARSA                      |
| NCBI Official Synonym Symbols    | ASA; MLD                  |
| NCBI Protein Information         | arylsulfatase A           |
| UniProt Protein Name             | Arylsulfatase A           |
| UniProt Gene Name                | <b>ARSA</b>               |
| UniProt Synonym Gene Names       | ASA                       |
| UniProt Entry Name               | ARSA_HUMAN                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.