

## Rat Alpha aminoadipic semialdehyde synthase, mitochondrial (AASS) ELISA Kit | AASS elisa kit

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CATALOG #  
**AAA244442**

REACTIVITY  
**Rat**

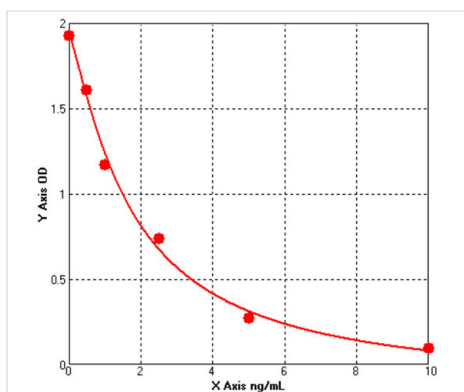
### PRODUCT SYNONYMS

Alpha aminoadipic semialdehyde synthase; mitochondrial (AASS); Rat Alpha aminoadipic semialdehyde synthase; mitochondrial (AASS) ELISA Kit; AASS elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of AASS. No significant cross-reactivity or interference between AASS and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between AASS and all the analogues, therefore, cross reaction may still exist in some cases. |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                               |
| Sensitivity             | 0.1 ng/mL                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                      |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for AASS elisa kit | <p>Principle of the Assay: AASS ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-AASS antibody and an AASS-HRP conjugate. The assay sample and buffer are incubated together with AASS-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the AASS concentration since AASS from samples and AASS-HRP conjugate compete for the anti-AASS antibody binding site. Since the number of sites is limited, as more sites are occupied by AASS from the sample, fewer sites are left to bind AASS-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AASS concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This AASS ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat AASS. This ELISA kit for research use only, not for therapeutic or test applications!</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 13027640                                                                                                                                                                                      |
| NCBI GeneID                      | 10157                                                                                                                                                                                         |
| NCBI Accession #                 | NP_005754.2                                                                                                                                                                                   |
| NCBI GenBank Nucleotide #        | NM_005763.3                                                                                                                                                                                   |
| Molecular Weight                 | 102,132 Da                                                                                                                                                                                    |
| NCBI Official Full Name          | alpha-aminoadipic semialdehyde synthase, mitochondrial                                                                                                                                        |
| NCBI Official Synonym Full Names | aminoadipate-semialdehyde synthase                                                                                                                                                            |
| NCBI Official Symbol             | AASS                                                                                                                                                                                          |
| NCBI Official Synonym Symbols    | LKRSDH; LORSDH; LKR/SDH                                                                                                                                                                       |
| NCBI Protein Information         | alpha-aminoadipic semialdehyde synthase, mitochondrial; lysine-2-oxoglutarate reductase; alpha-aminoadipate semialdehyde synthase; lysine-ketoglutarate reductase /saccharopine dehydrogenase |
| UniProt Protein Name             | Alpha-aminoadipic semialdehyde synthase, mitochondrial                                                                                                                                        |
| UniProt Gene Name                | AASS                                                                                                                                                                                          |
| UniProt Synonym Gene Names       | LKR; LOR; SDH                                                                                                                                                                                 |
| UniProt Entry Name               | AASS_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.