

# Succinate-semialdehyde dehydrogenase Recombinant Protein | ALDH5A1 recombinant protein

Recombinant Human Succinate-semialdehyde dehydrogenase, mitochondrial

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA113512</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

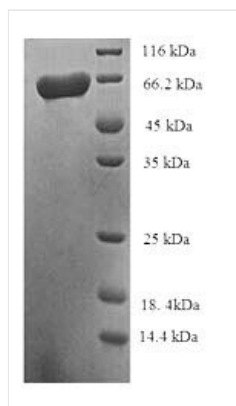
## PRODUCT SYNONYMS

Succinate-semialdehyde dehydrogenase; Recombinant Human Succinate-semialdehyde dehydrogenase; mitochondrial; Aldehyde dehydrogenase family 5 member A1; A1NAD(+)-dependent succinic semialdehyde dehydrogenase; ALDH5A1 recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Positions      | 48-535. Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence                | AGRLAGLSAA LLRTDSFVGG RWLPAAATFP VQDPASGAAL GMVADCGVRE ARAAVRAAYE AFCRWREVS<br>KERSSLLRKW YNLMIQNKDD LARIITAESG KPLKEAHGEI LYSAFFLEWF SEEARRVYGD IIHTPAKDRR<br>ALVLKQPIGV AAVITPWNFP SAMITRKVGA ALAAGCTVVV KPAEDTPFSA LALAEASQA GIPSGVYNVI<br>PCSRKNAKEV GEAICTDPLV SKISFTGSTT TGKILLHAA NSVKRVSMEL GGLAPFIVFD SANVDQAVAG<br>AMASKFRNTG QTCVCSNQFL VQRGIHDAFV KAFEAAMKKN LRVNGFEEG TTQGPLINEK AVEKVEKQVN<br>DAVSKGATVV TGGKRHQLGK NFFEPTLLCN VTQDMLCTHE ETFGLAPVI KFDTEEEAIA IANAADVGLA<br>GYFYSQDPAQ IWRVAEQLEV GMVGVNEGLI SSVCEPFGGV KQSGLGREGS KYGIDEYLEL KYVCYGGL |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

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|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Related Product Information for<br>ALDH5A1 recombinant protein | Catalyzes one step in the degradation of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA). |
| Product Categories/Family for<br>ALDH5A1 recombinant protein   | Metabolism                                                                                               |

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NCBI AND UNIPROT INFORMATION

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| NCBI GI #                        | 4507229                                                       |
| NCBI GeneID                      | 7915                                                          |
| NCBI Accession #                 | NP_001071.1                                                   |
| NCBI GenBank Nucleotide #        | NM_001080.3                                                   |
| UniProt Accession #              | P51649; Q546H9; Q8N3W6; B2RD26; G5E949                        |
| Molecular Weight                 | 54.3 kDa                                                      |
| NCBI Official Full Name          | succinate-semialdehyde dehydrogenase, mitochondrial isoform 2 |
| NCBI Official Synonym Full Names | aldehyde dehydrogenase 5 family member A1                     |
| NCBI Official Symbol             | ALDH5A1                                                       |
| NCBI Official Synonym Symbols    | SSDH; SSADH                                                   |
| NCBI Protein Information         | succinate-semialdehyde dehydrogenase, mitochondrial           |
| UniProt Protein Name             | Succinate-semialdehyde dehydrogenase, mitochondrial           |
| UniProt Gene Name                | ALDH5A1                                                       |
| UniProt Synonym Gene Names       | SSADH                                                         |
| UniProt Entry Name               | SSDH_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.

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