



Recombinant Human Succinate-semialdehyde dehydrogenase, mitochondrial (ALDH5A1)

Product Code	CSB-BP001577HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P51649
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	AGRLAGLSAALLRTDSFVGGRWLPAAATFPVQDPASGAALGMVADCGVREA RAAVRAAYEAFRCRWREVS AKERSLLRKWYNLMIQNKDDLARIITAESGKPLK EAHGEILYSAFFLEWFSEEARRVYGDIIHTPAKDRRALVLKQPIGVA AVITPWNF PSAMITRKVGAALAAAGCTVVVKPAEDTPFSALALAE LASQAGIPSGVYNVIPCS RKNAKEVGEAICTDPLVSKISFTGSTTTG KILLHHAANSVKRVSMELGGLAPFIV FDSANVDQAVAGAMASKFRNTGQTCVCSNQFLVQRGIHDAFVKAF AEAMKKN LRVNGFEEGTTQGPLINEKAVEKVEKQVND AVSKGATVVTGGKRHQLGKNF FEPTLLCNVTQDMLCTHEETFGPLAPVIKFDTEEEAIAIANAADVGLAGYFYSQ DPAQIWRVAEQLEVGMVGVNEGLISSVECPFGG VKQSGLGREGSKYGIDEYL ELKYVCYGG L
Research Area	Metabolism
Source	Baculovirus
Target Names	ALDH5A1
Protein Names	Recommended name: Succinate-semialdehyde dehydrogenase, mitochondrial EC= 1.2.1.24 Alternative name(s): Aldehyde dehydrogenase family 5 member A1 NAD(+)-dependent succinic semialdehyde dehydrogenase
Expression Region	48-535aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein belongs to the aldehyde dehydrogenase family of proteins. This gene encodes a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties. Two transcript variants encoding distinct isoforms



have been identified for this gene.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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