abcam

Product datasheet

Recombinant Human ALDH5A1/SSADH protein ab99429

1 Image

Description

Product name	Recombinant Human ALDH5A1/SSADH protein
Purity	> 90 % SDS-PAGE. ab99429 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	P51649
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHHSSGLVPRGSH**MAGRLAGLSAALLRTDSF VGGRWLPAAATF PVQDPASGAALGMVADCGVREARAAVRAAYEAFCRWR EVSAKERSSLLRK WYNLMIQNKDDLARIITAESGKPLKEAHGEILYSAFFLEWF SEEARRVYG DIIHTPAKDRRALVLKQPIGVAAVITPWNFPSAMITRKVGAA LAAGCTVV VKPAEDTPFSALALAELASQAGIPSGVYNVIPCSRKNAKE VGEAICTDPL VSKISFTGSTTTGKILLHHAANSVKRVSMELGGLAPFIVFD SANVDQAVA GAMASKFRNTGQTCVCSNQFLVQRGIHDAFVKAFAEAMK KNLRVGNGFEE GTTQGPLINEKAVEKVEKQVNDAVSKGATVVTGGKRHQL GKNFFEPTLLC NVTQDMLCTHEETFGPLAPVIKFDTEEEAIAIANAADVGLA GYFYSQDPA QIWRVAEQLEVGMVGVNEGLISSVECPFGGVKQSGLGRE GSKYGIDEYLE LKYVCYGGL
Predicted molecular weight	55 kDa including tags
Amino acids	48 to 535
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab99429** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	This product was previously labelled as ALDH5A1

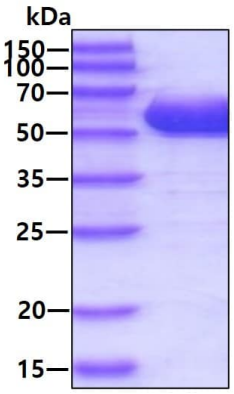
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 0.0292% EDTA, 10% Glycerol, 0.58% Sodium chloride

General Info

Function	Catalyzes one step in the degradation of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA).
Tissue specificity	Brain, pancreas, heart, liver, skeletal muscle and kidney. Lower in placenta.
Pathway	Amino-acid degradation; 4-aminobutanoate degradation.
Involvement in disease	Defects in ALDH5A1 are the cause of succinate semialdehyde dehydrogenase deficiency (SSADH deficiency) [MIM:271980]. SSADH deficiency is a rare inborn error in the metabolism of 4-aminobutyric acid (GABA) which leads to accumulation of 4-hydroxybutyric acid in physiologic fluids of patients. The disease is characterized by severe ataxia and by mildly retarded psychomotor development.
Sequence similarities	Belongs to the aldehyde dehydrogenase family.
Cellular localization	Mitochondrion.

Images



SDS-PAGE - Recombinant Human ALDH5A1/SSADH protein (ab99429)

SDS-PAGE analysis of ab99429 (3 µg) under reducing conditions and visualized by coomassie blue stain.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
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