

# Recombinant Human ALDH5A1 Protein (48-535 aa), His-tagged

**Cat. No.** ALDH5A1-1324H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ALDH5A1 Protein (48-535 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length of Mature Protein.                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 48-535 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Catalyzes one step in the degradation of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA).                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 54.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | AGRLAGLSAALLRTDSFVGGRWLPAATFPVQDPASGAALGMVADCGVREARAAV<br>RAAYEAFCRWREVSASAKERSLLRKWYNLMIQNKDDLARIITAESGKPLKEAHGEILY<br>SAFFLEWFSEEARRVYGDIHTPAKDRRALVLKQPIGVAAVITPWNFPSAMITRKVGA<br>ALAAGCTVVVKPAEDTPFSALALAEASQAGIPSGVYNVIPCSRKNAKEVGAEICTDP<br>LVSKISFTGSTTTGILLHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAGAMASKF<br>RNTGQTCVCSNQFLVQRGIHDAFVKAFAEAMKKNLRVGNGFEEGTTQGPLINEKAV<br>EKVEKQVNDVAVSKGATVVTGGKRHLGKNFFFEPTLLCNVTQDMLCTHEETFGPLAP<br>VIKFDTEEEAIAIANAADVGLAGYFYSQDPAQIWRVAEQLEVGMVGVNEGLISSVECP |

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FGGVKQSGLGREGSKYGIDEYLELKYVCYGG

**Purity** > 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

**Gene Name** [ALDH5A1 aldehyde dehydrogenase 5 family, member A1 \[ Homo sapiens \]](#)

**Official Symbol** [ALDH5A1](#)

**Synonyms** ALDH5A1; SSADH; SSDH;

**Gene ID** [7915](#)

**mRNA Refseq** [NM\\_001080](#)

**Protein Refseq** [NP\\_001071](#)

**MIM** [610045](#)

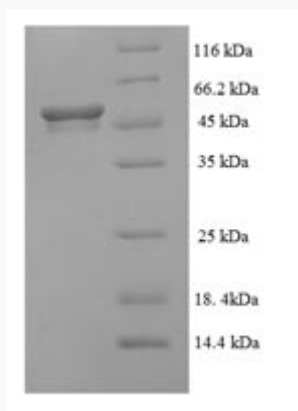
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UniProt ID

P51649



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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