

Recombinant Human ALDH18A1 protein, His-tagged

Cat. No. ALDH18A1-9549H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH18A1 protein(1-362 aa), fused with N-terminal His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-362 aa
Tag	N-His
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization.
Purity	90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Short-term storage: Store at 2-8°C for (1-2 weeks). Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage. After reconstitution with sterile water, if glycerol has no effect on subsequent experiments, it is recommended to add an equal volume of glycerol for long-term storage.

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AA Sequence

MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTH
 GKSFAHRSELKHAKRIVVKLGSAVVTRGDECGLALGRLASIVEQVSVLQNQGEMM
 LVTSGAVAFGKQRLRHEILLSQSVRQALHSGQNQLKEMAIPVLEARACAAAGQSGL
 MALYEAMFTQYSICAAQILVTNLDFHDEQKRRNLNGTLHELLRMNIVPIVNTNDAVVP
 PAEPNSDLQGVNVISVKDNDSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKLID
 IFYPGDQQSVTFGIKSRVGMGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVIT
 DIVEGKKVGTFFSEVKPAGPT

GENE INFORMATION

Gene Name [ALDH18A1 aldehyde dehydrogenase 18 family, member A1 \[Homo sapiens \]](#)

Official Symbol [ALDH18A1](#)

Synonyms

ALDH18A1; aldehyde dehydrogenase 18 family, member A1; GSAS, PYCS, pyrroline
 5 carboxylate synthetase (glutamate gamma semialdehyde synthetase); delta-1-
 pyrroline-5-carboxylate synthase; P5CS; delta1-pyrroline-5-carboxylate synthetase;
 aldehyde dehydrogenase family 18 member A1; delta-1-pyrroline-5-carboxylate
 synthetase; pyrroline-5-carboxylate synthetase (glutamate gamma-semialdehyde
 synthetase); GSAS; PYCS; ARCL3A; MGC117316;

Gene ID [5832](#)

mRNA Refseq [NM_001017423](#)

Protein Refseq [NP_001017423](#)

MIM [138250](#)

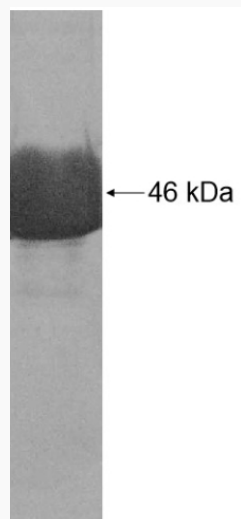
UniProt ID [P54886](#)

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SDS-PAGE



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