

# Product datasheet for AR09661PU-L

### ALDH5A1 / SSADH (48-535, His-tag) Human Protein

### **Product data:**

#### OriGene Technologies, Inc.

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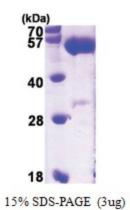
Product Type:Recombinant ProteinsDescription:ALDH5A1 / SSADH (48-535, His-tag) human recombinant protein, 0.25 mgSpecies:HumanExpression Host:E. coliExpression cDNA CloneMGSSSHHHHHH SSGLVPRGSH MAGRLAGLSA ALLRTDSFVG GRWLPAAATF PVQDPASGAAor AA Sequence:LGMVADCGVR EARAAVRAAY EAFCRWREVS AKERSSLLRK WYNLMIQNKD DLARIITAES GKPLKEAHGE ILVSAFFLEW FSEEARRVYG DIIHTPAKOR RALVLKQPIG VAAVTPWNF PSAMITRKVG AALAAGCTVV VKPAEDTPFS ALALAELASQ AGIPSGVVNV IVCSRNAKE VGEAICTDPL VSKISFTGST TTGKILHAA ANSVKRYSME LGGLAPPIF DSANVDQAVA GAMASKERNT GQTCVCSNOF LVQRGIHDAF VKAFAEAMKK NLRVGNGFEE GTTQGPLINE KAVEKVEKQV NDAVSKGATV VTGGKRHQLG KNFFEPTLLC NVTQDMLCTH EETFGPLAPV IKFDTEEEAI AIANAADVGL AGYFSQDPA QIWRVAEQLE VGMVGVNEGL ISSVECPFGG VKQSGLGREG SKYGIDEYLE LKVVCYGGLTag:His-tagPredicted MW:54.6 kDaConcentration:lot specificPurity:>90% by SDS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl, 1 mM EDTAPreparation:Liquid purified protein E.coli and purified protein Buffer:Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thaving.Stability:Shelf life: one year from despatch.RefSeq:NP 001071Locus ID:7915		
Species:HumanExpression Host:E. coliExpression cDNA CloneMGSSHHHHHH SSGLVPRGSH MAGRLAGLSA ALLRTDSFVG GRWLPAAATF PVQDPASGAA LGMVADCGVR EARAAVRAAY EAFCRWREVS AKERSSLLRK WYNLMIQNKD DLARIITAES GRVPLKEAHGE ILYSAFFLEW FSEEARRYYG DIHTPAKDR RAJVLRQPIG VAAVITPWN PSAMITRKYGG AALAAGCTVV VKPAEDTPFS ALALAELASQ AGIPSGVTNV IPCSRKNAKE VGEAICTDPL VSKISFTGST TTGKILLHHA ANSVKRVSME LGGLAPFIVF DSANVDQAVA GAMASKRRNT GQTCVCSNQF LVQRGIHDAF VKAFAEAMKK NLRVGNGFEE GTTQGPLINE KAVEKVEKQV NDAVSKGATV VTGGKRHQLG KNFFEPTLLC NVTQDMLCTH EETFGPLAPV IKFDTEEAI AIANAADVGL AGYFYSQDPA QIWRVAEQLE VGMVGVNEGL ISSVECPFGG VKQSGLGREG SKYGIDEYLE LKYVCYGGLTag:His-tagPredicted MW:54.6 kDaConcentration:Iot specificPurity:>90% by SDS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Buffer system: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NACI, 1 mM EDTAPreparation:Liquid purified protein Buffer State: Liquid purified protein Buffer State: Liquid purified protein Acio repeated freezing and thawing.Statejlity:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP_001071	Product Type:	Recombinant Proteins
Expression Host:E. coliExpression cDNA Clono or AA Sequence:MGSSHIHHIHH SSGLVPRGSH MAGRLAGLSA ALLRTDSFVG GRWLPAAATF PVQDPASGAA LGMVADCGVR EARAAVRAAY EAFCRWREVS AKERSSLLRK WYNLMIQNKD DLARIITAES GKPLKEAHGE ILYSAFELEW FSEEARRVVG DIIHTPAKDR RALVLKQPIG VAAVTPPWNF PSAMITRKVG AALAAGCTVV VKPAEDTPFS ALALELASQ AGIPSGVYNV IPCSRKNAKE VGEAICTDPL VSKISFTGST TTGKILLHHA ANSVRVSME LGGLAPFIVF DSANVDQAVA GAMASKFRNT GQTCVCSNQF LVQRGIHDAF VKAFAEAMKK NLRVGNGFEE GTTQGPLINE KAVEKVEKQV NDAVSKGATV VTGGKRHQLG KNFFEPTLLC NVTQDMLCTH EETFGPLAPV IKFDTEEEAI AIANAADVGL AGYFSQDPA QIWRVAEQLE VGMVGVNEGL ISSVECPFGG VKQSGLGREG SKYGIDEYLE LKVCYGGLTag:HistagPredicted MW:54.6 KDaConcentration:Iot specificPurity:>90% by SDS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1 M NACI, 1 mM EDTAPreparation:Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1 M NACI, 1 mM EDTAFreparation:State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1 M NACI, 1 mM EDTAFreparation:Store undiluted at 2-8° Cfor up to two weeks or (in aliquots) at -20° Cor -70°C for longer. Avoid repeated freezing and thawing.Stability:Shel life: one year from despatch.RefSeq:NP 001071	Description:	ALDH5A1 / SSADH (48-535, His-tag) human recombinant protein, 0.25 mg
Expression cDNA Clone or AA Sequence:MGSSHHHHHH SGLVPRGSH MAGRLAGLSA ALLRTDSFVG GRWLPAATF PVQDPASGAA LGMVADCGVR EARAAVRAAY EAFCRWREVS AKERSSLLRK WYNLMIQNKD DLARIITAES GKPLKEAHGE ILYSAFFLEW FSEEARRVYG DIIHTPAKDR RALVLKQPIG VAAVITPWNF PSAMITRKVG AALAAGCTVV VKPAEDTPFS ALALAELASQ AGIPSGVNVI IPCSRKNAKE VGEAICTDPL VSKISTGST TTGKILHHA ANSVKRVSME LGGLAPFIVF DSANVDQAVA GAMASKFRNT GQTCVCSNQF LVQRGIHDAF VKAFAEAMKK NLRVGONGEE GTTQGPLINE KAVEKVEKQV NDAVSKGATV VTGGKRHQLG KNFFEPTLLC NVTQDMLCTH EETFGPLAPV IKFDTEEEAI AIANAADVGL AGYFYSQDPA QIWRVAEQLE VGMVGVNEGL ISSVECPFGG VKQSGLGREG SKYGIDEYLE LKVVCYGGLTag:His-tagPredicted MW:54.6 kDaConcentration:Iot specificPurity:>90% by SDS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCI buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl, 1 mM EDTAPreparation:Liquid purified protein Buffer System: 20 mM Tris-HCI buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl, 1 mM EDTAPreparation:Store undiluted at 2.8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Species:	Human
or AA Sequence:LGMVADCGVR EARAAVRAAY EAFCRWREVS AKERSSLLRK WYNLMIQNKD DLARIITAES GKPLKEAHGE ILVSAFFLEW FSEEARRVYG DIHTPAKDR RALVLKQPIG VAAVITPWNF PSAMITRKVG AALAAGCTVV VKPAEDTPFS ALALAELASQ AGIPSGVYNV IPCSRKNAKE VGEAICTDPL VSKISFTGST TTGKILHHA ANSVKRVSME LGGLAPFIVF DSANVDQAVA GAMASKRNT GQTCVCSNOF LVQRGIHDAF VKAFAEAMKK NLRVGNGFEE GTTQGPLINE KAVEKVEKQV NDAVSKGATV VTGGKRHQLG KNFFEPTLLC NVTQDMLCTH EETFGPLAPV IKFDTEEEAI AIANAADVGL AGYFYQDPA QIWRVAEQLE VGMVGVNEGL ISSVECPFGG VKQSGLGREG SKYGIDEYLE LKYVCYGGLTag:His-tagPredicted MW:54.6 kDaConcentration:Iot specificPurity:>90% by DS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCI buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NACI, 1 mM EDTAPreparation:Liquid purified protein Buffer System: 20 mM Tris-HCI buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NACI, 1 mM EDTAStorage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Expression Host:	E. coli
Predicted MW:54.6 kDaProcentration:lot specificPurity:>90% by SDS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCI buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NACI, 1 mM EDTAPreparation:Liquid purified protein Contein Description:Recombinant human ALDH5A1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	•	LGMVADCGVR EARAAVRAAY EAFCRWREVS AKERSSLLRK WYNLMIQNKD DLARIITAES GKPLKEAHGE ILYSAFFLEW FSEEARRVYG DIIHTPAKDR RALVLKQPIG VAAVITPWNF PSAMITRKVG AALAAGCTVV VKPAEDTPFS ALALAELASQ AGIPSGVYNV IPCSRKNAKE VGEAICTDPL VSKISFTGST TTGKILLHHA ANSVKRVSME LGGLAPFIVF DSANVDQAVA GAMASKFRNT GQTCVCSNQF LVQRGIHDAF VKAFAEAMKK NLRVGNGFEE GTTQGPLINE KAVEKVEKQV NDAVSKGATV VTGGKRHQLG KNFFEPTLLC NVTQDMLCTH EETFGPLAPV IKFDTEEEAI AIANAADVGL AGYFYSQDPA QIWRVAEQLE VGMVGVNEGL ISSVECPFGG VKQSGLGREG SKYGIDEYLE
Concentration:Iot specificPurity:>90% by SDS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Suffer System: 20 mM Tris-HCI buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NACI, 1 mM EDTAPreparation:Liquid purified protein Coli and purified protein E.coli and purified by using conventional chromatography techniques.Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Tag:	His-tag
Purity:>90% by SDS - PAGEBuffer:Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl, 1 mM EDTAPreparation:Liquid purified protein Recombinant human ALDH5A1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Predicted MW:	54.6 kDa
Buffer:Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl, 1 mM EDTAPreparation:Liquid purified protein Recombinant human ALDH5A1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Concentration:	lot specific
State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl, 1 mM EDTAPreparation:Liquid purified proteinProtein Description:Recombinant human ALDH5A1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Purity:	>90% by SDS – PAGE
Protein Description:Recombinant human ALDH5A1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Buffer:	State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl,
E.coli and purified by using conventional chromatography techniques.Storage:Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Preparation:	Liquid purified protein
Avoid repeated freezing and thawing.Stability:Shelf life: one year from despatch.RefSeq:NP 001071	Protein Description:	
<b>RefSeq:</b> <u>NP 001071</u>	Storage:	
	Stability:	Shelf life: one year from despatch.
Locus ID: 7915	RefSeq:	<u>NP 001071</u>
	Locus ID:	7915



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	ALDH5A1 / SSADH (48-535, His-tag) Human Protein – AR09661PU-L
UniProt ID:	<u>P51649</u> , <u>X5DQN2</u>
Cytogenetics:	6p22.3
Synonyms:	SSADH; SSDH
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families	: Druggable Genome
Protein Pathway	<b>/s:</b> Alanine, aspartate and glutamate metabolism, Butanoate metabolism, Metabolic pathways

## Product images:



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